FINANCIAI TIMES

French TV

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Page 13

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European Union

Substantial agenda for Amsterdam



WEENESDAY APRIL 2 1997

French and German markets worst hit in wake of heavy US losses

German telecoms

Angry argunn in public



Today's survey

Turkish infrastructure

Newspaper http://www.FT.com



Netanyahu talks of forming national unity government

Israeli prime minister Benjamin Netanyahu said he was considering a national unity government in an attempt to reach a broad consensus for a final settlement with the Palestinians. His remarks came as two Palestinians, apparently suicide bombers, were killed in explosions targeted at Jewish settlers in the Gaza Strip and Israeli troops ahot dead two Palestinians near the West Bank town of Nablus. The opposition Labour party is divided about joining a national unity government. Ehud Barak, front runner in the party's leadership race, said Mr Netanyahn was "playing for time". Page 4

Suez board backs merger: The board of French holding company Suez approved a merger with the utilities group Lyonnaise des Eaux. It also proposed the payment of a special dividend, likely to total more than FFr3bn (\$520m). Page 17; Lex, Page 18; Logic is simple than logistics, Page 20

Pakistan president's power weaken Pakistan's MPs voted unanimously to repeal the power of the president to sack elected governments. Opposition leader Benazir Bhutto, sacked as premier by the president in November, said the move was a victory. Page 7

Russian liberals alarmed at treaty: Russian liberals say a union treaty due to be signed between Russia and Belarus would damage Russia's economy. Page 2; Editorial Comment, Page 17

Big interest in Bre-X shares: Toronto stock exchange's computer system was overwhelmed when shares in Canadian exploration company Bre-X began trading after a one-day halt. More than 2m shares of the troubled Calgary based company changed hands in the first two minutes of trading. Page 17

French government and European aerospace are at odds over the leadership of Arianespace, the world's biggest commenc organisation. Page 16

Trident refit costs scar: Facilities to refit Britain's Trident nuclear missile submarine fleet at Devomport in south-west England will cost about £850m (\$557m), almost 50 per cent more than the cost quoted when the contract was awarded in 1993, the Ministry of Defence said. Page 8

Qiet and QKN in \$4.7bn arms bid: French defence equipment manufacturer Glat Indus-tries joined forces with GKN of the UK and Ger-man engineering groups Krauss Maffet and Rheinmetall to bid for the \$4.77bn European multi-role armoured vehicle programme. Page 5 New computer model for credit risk: A

group of international banks will today launch a computer model for measuring credit risk which they believe could reduce the cushion of capital regulators require them to hold. Page 16 Jobs flexibility 'common across EU':

Wage and employment flexibility are common across the European Union, a survey of European-based companies shows. Page 3 **C&N faces delisting threat:** That

construction company Christiani & Nielsen which engineered a takeover of its Danish parent company in 1992, is in danger of being delisted from the Thai stock exchange after reporting higher than expected losses. Page 17

Malaysia publishes listings rules: Malaysia announced guidelines under which for eign companies may seek to list their shares on the Kuala Lumpur stock exchange. Page 7

Storm hits US east coast: A spring storm lashed the US east coast with snow, ball and gales, leaving one person dead and thousands without power. Weather reports, Page 16

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C THE FINANCIAL TIMES LIMITED 1997 No 33,254

European shares fall amid fears of end to bull run

and Gerard Baker in

European markets fell sharply yesterday following two days of heavy losses on Wall Street, with German and French share prices particularly badly

The falls gave rise to fears that Europe's strong bull run may be coming to an end. Mr Mark Howdle, head of European equity strategy at UBS, the Swiss bank, said: "The party is over. The correction we have been looking for has

US markets, which have fallen by nearly 5 per cent since trading closed in Europe for Easter, were calmer but falls, with the Amsterdam and spending, a key index of lead- are overvalued following their fundamental reason why dropped lower in early trading. Stockholm markets down by ing economic indicators, strong recent run, Mr. Howells south being second by the second by the second by the second being second by the following data showing that more than 4 per cent. Swiss the strong pace of economic growth appears to be gaining SMI index closing 157.5 lower

German shares suffered one of their biggest one-day falls lower, with yields on German during floor trading in Frank-furt, with the DAX index los-cent for the first time since

By Richard Lapper in London, Lisa Bransten in New York in 3.281.46. In Paris, the CAC-40 suffered a fail of 2.8 per cent, ending the day at 2,581.82, down 74.86.

London shares were less severely hit. But although the FTSE 100 ended the day off its lows, the market still closed down 64.8 at 4.248.1. Some of Europe's smaller equity

Economic Indicators	Page 6
Investors shiver	
Lex	Page 18
Bonds ,	
Currencies	Page 35
London stocks	Page.32
World stecks	Page 36

share prices fell too, with the at 4.501.7. down 3.4 per cent.

European bond prices drifted

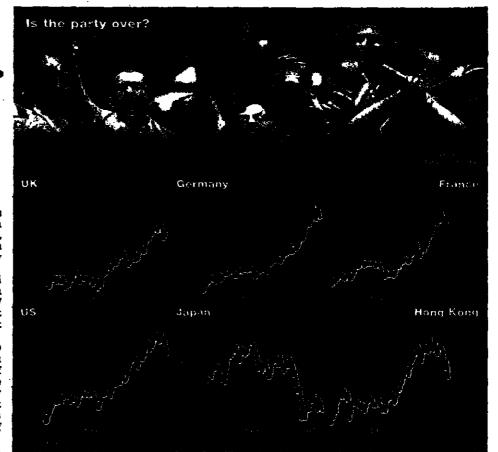
November. European markets were partly catching up with the recent falls on Wall Street, which follow the increase in short-term interest rates by

the Federal Reserve. The Dow Jones Industrial Average lost 140 points on Thursday and a further 157 points on Monday, the biggest two-day fall - in points, not

percentage - since 1987. In New York, blue chip shares were positive through much of the early part of yesterday's session before falling into negative territory in the early afternoon. Just after noon, the Dow Jones Industrial Average was off

15.11 at 6,558.37. Yesterday's economic data markets also saw significant showed that US construction surged in February. Figures from the National

Association of Purchasing Management showed that US economic activity in the manufacturing sector also accelerated last month. In Europe, there are now fears that shares



estimated that European shares had become overvalued

per cent.

restructuring was increasing been overblown. "There is no appear, with reports that US

so far ahead of earnings and dividends," said Mr Howdle.

There are also signs that the strong inflows of liquidity Hopes that corporate from US investors which have boosted German and other corporate profitability had markets are beginning to dis-

holdings of mutual funds. Earlier yesterday, Asian markets also slid lower, with

Hong Kong the worst-hit. The Hang Seng Index plummeted by 460.13 points, or 8.67 per cent, to 12,074.19. In Tokyo, the

US set to block EU exports of meat after talks fail

By Nancy Dunne in Washington, Emme Tucker in Brussets and Alison Maitland

Trade hostilities over food broke out between the US and the European Union yesterday, threatening hundreds of millions of dollars worth of transatlantic trade in meat and other foodstuffs.

Washington announced it would block EU meat exports worth \$800m a year from April 15 after the two falled to agree on recognition of each other's hygiene standards and inspection methods.

The EU introduced rules yes terday that require countries to comply with its hygiene standards if their governments have not reached mutual recognition agreements with

Mr Dan Glickman, US agriculture secretary, said the rules would hit US exports of red meat, poultry, eggs, dairy products and fish worth more

than \$125m a year. The US and the EU have been trying for nearly three years to establish a mutual recognition system ~ known as veterinary equivalence required by the Uruguay Round world trade agreement. The US is assessing a move to the World Trade Organisation

if no bilateral agreement is iched but hopes the EU can be lured to the negotiating However, the European Commission cancelled talks

scheduled for last night after discovering that the US was seeking to take the matter up directly with individual manher states. The US believes EU negotia-

tors are overreacting to the The Commission said it was unable to reach agreement with the US because of the

New shake-up for Japanese banks Tokyo seeks to restore sector's credibility

ity of the country's banks by other private sector banks and inviting weak institutions to withdraw from foreign markets so that remaining lenders would be seen by overseas investors as "safe and sound".

The way of the country's banks and the regional However, bank share prices to merge with the regional However, bank share prices to merge with the regional continued to slide in Tokyo, has to let weak banks collapse, as it did last November unimpressed with the plans and financial analysts were unimpressed with the plans and the plans and the plans are safe and sound". investors as "safe and sound". The move follows a surther

shake-up yesterday within the country's top 20 lenders. Under a finance ministry rescue plan Nippon Credit Bank, the smallest of Japan's three long-term credit banks which is carrying at least

Y1,000hn (\$8.1bn) in bad loans, is to receive Y800bm of new

and out staff by 20 per cent, or 660 people. It will also write off three afting non-banking affili-ates, which yesterday filed for bankruptcy with total debts of more than Y2,025bn - collectively the country's largest Meanwhile Hokkaldo Taku-

shoku, largest lender on the northern island of Hokkaido, is

plans were a big step towards

Japan's banking industry. Mr Hiroshi Mitsuzuka, finance minister, said the NCB restructuring and Hokkaido banks' merger would "help restore confidence" and

Tokyo, said they were a return to the so-called convoy system, reducing surplus capacity in under which strong banks are put under government pres-

sure to bail out weak ones. Finance ministry officials denied banks were being forced to the rescue, although Mr Set Nakai, deputy director-general of the ministry's bank-"secure the credibility of general of the ministry's bank-Japan's banking system". ing bureau, said the 12 lenders

The government was sticking to its policy of guaranteeing the survival of the top 20 banks until 2001, by when it intended to complete the deregulation of the Tokyo capital markets, Mr Nakai added.

Editorial Comment, Page 15 NCB overhaul, Page 21

Airbus set to clinch \$2bn Chinese deal

orders from China for up to 50 aircraft worth about \$2bn. The deal is likely to coincide with the visit to Beijing next month of President Jacques Chirac of

The proposed bulk order follows China's \$1.3bn purchase last year of 80 Airbus A-820s and will help narrow the gap between the aircraft supplied by the European consortium and those by its US rival Boenese commercial fleet.

Airtus officials said details had yet to be worked out but China's interest was flagged last week with a visit to the group's Toulouse headquarters by Mr Qiao Shi, number three in the Beijing hierarchy.

Mr. Jean Pierson, president of Airbus Industrie, last th held talks in Beijing with Premier Li Peng, whose visit to France last year coin-cided with China's agreement to buy the A-320s. Chinese aviation officials

say they want to achieve a Douglas, which recently merged, account for about three-quarters of China's 490 commercial jets. Airbus has Poultry row, Page 5 shout a 10 per cent share.

China's ninth Five-Year Plan (1996-2000) includes buying about 240 aircraft. Orders for roughly half have already been placed. Beijing is also on the verge

of concluding negotiations for the assembly and manufacture in China of a 100-seat regional jet in parinership with a European consortium, which includes Airbus Industrie. Mr Chirac's visit is expected

to expedite the AE-100 project, a joint venture between Avia tion Industries of China, Singapore Technologies and the four-partner Airbus consor-tium – Aerospatiale, British Aerospace, Daimler-Benz Aerospace and Constructiones Aeronauticas of Spain. The expected Airbus deal

follows China's agreement last month to purchase five Bosing 777s. It takes Chinese pur chases of Boeing aircraft to 15, worth about \$2hn, since a two-year moratorium on new orders was lifted last year. The Airbus purchases are

expected to be dominated by "narrow-body" A-320s and the slightly larger A-321s. Beijing may also order sov eral wide-bodied aircraft but

expension of the domestic net-

work. Truffic is growing by

It's a Cinven fact

Our brochure won a silver nomination in the 1996 British Design and Art Direction awards.

Cinven Moner with style

Treaty to be signed today has raised fears about economy and democratic progress

Belarus link alarms Russian liberals

By John Thomh谜 in Mascow

Russian liberals have expressed alarm about a union treaty due to be signed today between Russia and Belarus. They claim it would damage their country's economy and delay progress towards democracy. However, Mr Boris Yeltsin,

Russia's president, said he was a "consistent and firm" supporter of the unification of the two neighbouring Slavic states, both of which

By Matthew Kaminski

Two Ukrainian companies

are scrambling for foreign

partners before the deadline

on Saturday for them to buy

cellular telephone operating

licences from the govern-

Equalisation Account.

are former Soviet republics. "It is a geopolitical necessity and an economic reality," a Kremlin spokesman

Mr Yeltsin will play host to Mr Alexander Lukashenko, his Belarusan opposite number, in Moscow today to sign a union treaty committing the two countries to closer integration.

But the treaty's precise details have been the subject of flerce in-fighting in the Kremlin and could yet be

The scourge of foreign limousine-loving Russian bureaucrats, Boris Nemtsov (right)

investment with its local

partner, Ukrainian Radio

Motorola blamed the

conditions" of the licensing

iotomia cannot conti

poor investment climate.

Systems (URS).

GSM-900 cellular network to invest in Ukraine when

has been thrown into doubt the government is con-

with last week's decision by stantly changing the rules of

Motorola to abandon a Bondar, Motorola's public

TENDER NOTICE

UK GOVERNMENT

ECU TREASURY BILLS

For tender on 8 April 1997

1. The Bank of England announces the issue by Her

Bank of England for the account of the Exchange

2. The ECU 1,000 million of Bills to be issued by tender will be dated 10 April 1997 and will be in the following

All tenders must be made on the printed application forms available on request from the Bank of England

Completed application forms must be lodged, by hand, a the Bank of England, Customer Settlement Services. Threadneedle Street, London not later than 10.30 a.m.

London time, on Tuesday, 8 April 1997. Payment for Bitts allotted will be due on Thursday, 10 April 1997.

4. Each tender at each yield for each maturity must be

made on a separate application form for a minimum of ECU 500,000 nominal. Tenders above this minimum must

5. Tenders must be made on a yield basis (calculated or

the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount

6. Notification will be despatched on the day of the tende

to applicants whose tenders have been accepted in whole

or in part. For applicants who have requested credit of Bills

global form to their account with ESO, Euroclear or CEDEL. Bills will be credited in the relevant systems agains payment. For applicants who have requested definitive Bills, Bills will be available for collection at Customer Settlement Services, Bank of England after 1.30 p.m. on

Thursday, 10 April 1997 provided cleared funds have been credited to the Bank of England's ECU Treasury Bills

Account No. 59005516 with Lloyds Bank Pic, Bank Relations, St George's House, PO Box 787, 6-8 Eastcheap, London EC3M 1LL. Definitive Bills will be available in amounts of ECU 10,000, ECU 50,000, ECU 100,000, ECU 500,000 and ECU 10,000 promisel.

7. Her Majesty's Treasury reserves the right to reject any

8. The arrangements for the tender are set out in more

detail in the Information Memorandum on the UK

Government ECU Treasury Bill programme issued by the Bank of England on behalf of Her Majesty's Treasury on 28 March 1989, and in supplements to the Information

Memorandum. All tenders will be subject to the provisions

of the Information Memorandum (as supplemented) and to

9. The ECU 50 million of Bills to be allotted directly to the

Bank of England for the account of the Exchange

Equalisation Account will be for maturity on 16 October

1997. These Bills may be made available through sale and repurchase transactions to the market makers listed in the Information Memorandum (as supplemented) in order to

10. Copies of the Information Memorandum (and supplements to it) may be obtained at the Bank of England.

UK Government ECU Treasury Bills are issued under the Treasury Bills Act 1877, the National Loans Act 1968 and the Treasury Bills Regulations 1968 as amended.

ECU 200 million for maturity on 15 May 1997.

ECU 500 million for maturity on 10 July 1997.

be in multiples of ECU 100,000 nominal.

ECU 10.000,000 nominal.

the provisions of this notice.

facilitate settlement.

ECU 300 million for maturity on 16 October 1997.

the US electronics company the game," said Ms Victoria size.

statement of political intent. Mr Anatoly Chubais, the liberal first deputy prime minister, has strongly opposed a full union, fearing its economic consequences.

Mr Sergel Shakhrai, a political adviser to Mr Yeltsin's and one of the treaty's keenest supporters, has said union with Belarus would be the most effective response to Nato's eastward enlargement plans. Belarus shares a long border with Poland, which is pressing strongly for Nato membership.

Mr Shakhrai said the treaty would also lead to much closer economic, transport and communications links between the two countries and establish the principle of common citizenship. "The union will also have

ship," he said. That is undoubtedly a very important provision in the document because it guarantees that a Russian on Belarus territory will enjoy the same rights as a

the institution of citizen-

Political observers in Mr Lukashenko has run his Moscow have previously dismissed talk of a union treaty as empty rhetoric but their current concern suggests the move has powerful backers in the Kremlin

The liberal Izvestiya newspaper yesterday decried the the fate of Russia was being decided behind its back. "Is a treaty or a conspiracy being prepared in the corridors of power?" it asked. Russian liberals have

country of 10m people after year and clamped down on opposition activity.
"You cannot talk about

negotiating integration with a state where there is political repression and the conditions for the normal existence of the opposition are ruled out and the work of the media is restricted," said Mr Grigory Yavlinsky, leader of the lib-eral Yabloko faction. flercely criticised the way

Some of Russia's myriad bureaucrats may have dismissed it as an April Fools' Day loke, but a presidential order theoretically came into effect yesterday banning them from driving for-

The move to trim the cedes-loving apparatchiks was the initiative of Mr governor of Nizhny Novgorod. He has just entered

Mr Nemtsov lost little time persuading President Boris Yeltsin that all government bureaucrats should drive Russian-made Volga cars and auction off their foreign limousines in order to help settle the govern-

Rush for Ukraine mobile phone partners

the largest investments in

Ukraine. The company will

continue its other activities

A weak economy and polit-

for Ukraine, which attracted

\$12bn in Hungary, a fifth its

also won a licence to use the

necessary frequencies, need

foreign capital and know-

"When life is miserable for most people, it is not proper for the rulers to wallow in riches." Mr Nemtsov proclaimed primly.

However, financial ana-GAZ's share price leapt as a

most ill and distinguished"

ment's debts to federal ter for economic policy, was

switched to a Volga long

"It was not out of jingoism; it was motivated by purely economic consider ations. My Volga car costs the ministry Rbs15m [\$2,600] a month and an Audi costs Rbs32m," he

One St Petersburg official complained yesterday that the bulky, boxy Volga was of low quality and needed

But Mr Nikolai Pugin, president of GAZ, said the company would introduce a new model for governmen bureaucrats in May. The GAZ-3110 would cost about \$10,000 and boast more extras than the basic Volga including improved braking and lighting systems and

unaccustomed Russian

Matthew Kaminski reports on change in the political climate

eneral George Joul-wan, Nato's on an equal footing, he said supreme allied commander, received a warm welcome on his arrival in Kiev yesterday for talks on bringing Ukraine and the western alliance closer.

It was the sort of scene that might have been expected to raise temperatures in Moscow, Ukrainian leaders and some western officials have long feared that Nato's planned expansion into central Europe could provoke a rash Russian response, and put fresh pressure on "grey zone" countries such as Ukraine.

The opposite, in fact, appears to be be happening. The expanding co-operation with Nato, given added urgency by the looming expansion, has made Ukraine more confident in its dealings with Russia.

And since the US-Russia summit in Helsinki last month, when the Kremlin committed itself to better ties with the west, Moscow has taken a more concilia-tory approach toward its e<u>ich</u>bours.

Evidence of this came at the weekend during a break in the otherwise unproductive summit of the Commonwealth of Independent States, the grouping of for-

mer Soviet republics.
As Ukraine had long sought, President Boris Yeltsin told his Ukrainian counterpart, Mr Leonid Kuchma, that he was detaching the normalisation of ties with Kiev from the contentious issue of dividing up the jointly shared Black Sea Fleet and settling the terms for Russia's continued presence in Sevastopol, the fleet's headquarters in Ukrainian Crimea.

Now apparently recovered from pneumonia and heart surgery, the Russian leader also announced that his visit to Kiev, delayed six times in the past three years, would take place late next month

"The whole world keeps speculating about our relations." Mr Yeltsin said after meeting Mr Kuchma at the CIS summit. "But we have good, warm relations - you

and I together, and Ukraine and Russia." Such friendly rhetoric has council. not been heard for a while, as relations between the ex-Soviet Union's two most populous countries have been acutely strained ever since

independence in 1991. Ukraine had even aggressively played up its Nato aspirations in the weeks efore the CIS summit. Some officials suggested it might

soon apply to join. "At the moment it's the best of all possible worlds," said a western diplomat in Kiev. "Yeltsin seems to have realised that neighbouring for years. countries have other options. Russia is not strong

enough to beat them up, so it has to be nice." Mr Anton Buteiko, Ukraine's deputy foreign minister, argued that Nato expansion, rather than ting them. The Baltics are encourage reactionaries in Russia, could be "a great stimulus" for Russian democracy and regional sta-

"We are extremely pleased that a healthy Boris Yeltsin has taken a more constructive position," said Mr Kuchma. Stressing that his country

Moscow would no longer bully its neighbours: "Russia for the first time has started playing a role it should The Kremlin's posh for its own deal with Nato in the wake of Helsinki also has helped neutralise the pro-

Moscow left in Ukraine who

have argued vociferously

against the recent westward

Ukraine's negotiations with Nato are progressing without controversy. Western officials in Kiev said the alliance in the past month had come back with more substantive proposals.

The agreement is supposed to formalise Ukraine's partnership with the alliance through a special consultative mechanism, similar to the proposed Russia-Nato council, and affirm that the west cherishes its continued independence.

The Ukrainians are easer for specifics. "It should have some legally binding als ments and should raise secu-



Visit to Kiev yesterday of Nato commander Gen Joulwan has prompted no Kremlin protest

rity guarantees," said Mr Volodymyr Horbulin, head of the national security

The other potential "grey zone" countries around Russia's rim are also guardedly optimistic that the Kremlin may be prompted into giving up its claims of regional

hegemony. Leaders of the Baltic countries last week welcomed Mr Yeltsin's declaration in Helsinki that Russia would guarantee never to invade them again and his call for - renewed talks on finally concluding border and mutual recognition treaties held up

But Estonia, Latvia and Lithuania said their goal remained eventual Nato membership, holding out the hope that a less threatening Russia would soften western apprehensions about admitnot likely to be included in the first wave of expansion.

"The Russian president's position that the tragedies of the past will not be repeated improves the possibility that Lithuania can become a Nato member sooner rather than later," said Mr Algirdas Saudargas, Lithuania's foreign minister.

Swapping your Merc for Volga is no joke

By John Thomhill

privileges of Moscow's Mer-Boris Nemtsov, the radical government as a first deputy prime minister.

lysts were quick to note that Volga cars happen to be manufactured by the GAZ plant located in Mr Nemtsov's Nizhny Novgorod.

Undeterred by the controversy, the first deputy premier has hinted that he may pursue his cost-cutting crusade further, by axing transport and bousing allowances for all but "the

of bureaucrats. Ministers have been falling over each other to match the new puritanical mood. Mr Yevgeny Yasin, a minis-

wide GSM network compati- ised in earlier licensing istry also announced that It would have been one of ble with cellular services in agreements. Some officials frequency allocation would privately complained the be delayed for five months. because Kiev Star, a largely companies had paid too

> The government decided to resolve the dispute with a second tender, this time for licences specifically for frequencies. This gave new

to enter the market. This second tender, which was delayed, produced three to go ahead with construct- winners rather than the two that the western companies

ited frequencies. The communications min-

in 1995, needed more time to prepare.

unknown company founded

Kiev Star, whose shareholders include the railway and energy ministries, also holds three other lucrative telecommunications licences in Ukraine.

Daewoo of South Korea, which has other operations in Kiev, was the only bidder argue can profitably run a not awarded a licence last GSM network given the limmonth. It said it remained interested in developing a

cellular husiness in Ukraine

Italian battle lines drawn as state oil group cuts some prices

Eni ignites petrol pump war

other countries.

ment between 1991 and 1996 Telekom, PTT Netherlands

compared with more than and TeleDanmark - was also

how to construct a nation- the GSM frequencies prom-

URS and Kiev Star, which ing a network.

would not comment.

Kiev Star said yesterday it

was considering offers from

10 foreign operators. URS

Ukraine Mobile Communi-

cations (UMC) - a consor-

tium formed in 1992 by

Ukraine Telecom, Deutsche

awarded a licence and plans

The government last year

provoked a storm by refus-

ing to grant URS and UMC

Majesty's Treasury of ECU 1,000 million nominal of UK Government ECU Treasury Bills, for tender on a bid-yield basis on Tuesday, 8 April 1997. An additional ECU 50 million nominal of Bills will be allotted directly to the

planned \$500m 10-year relations director in Kiev.

procedures and accused the ical uncertainty have

government of creating a damped investor enthusiasm

"ever-changing terms and in the country.

A curious petrol pump war weekend by the state-controlled oil group, Eni, to lower some of its prices.

The battle lines are varied. Petrol station operators have threatened a three-day strike, protesting against Eni, and the government, for chief executive, Mr Franco unfair competition. Consumers are railing against the prospect of the strike, promised from April 15-17. The centre-left government, meanwhile, is quietly prodding the oil companies and through the Treasury, operators to bring prices in line with the rest of Europe. Through its subsidiarles Agip and Ip, Eni is the dominant distributor in Italy. On

at its motorway self-service pumps. The company is being waged in Italy as a explained this was part of a result of a decision at the more general plan to reduce self-service prices at more than 1,500 Agip and Ip stations - equivalent to 15 per cent of the total in Italy.

The decision came after a meeting between senior government ministers and Eni's Bernabé on the same day a mini-budget was unveiled. It thus looked to the vast motoring public remarkably like a sweetener imposed by remains Eni's chief shareholder. The government reckons motorists will save L1.000bn (\$600m) this year. Ever since the anti-trust

petrol by L50 (3 cents) a litre petrol prices in Italy were up other European Union country, the government has been pressing for a reaction from the distributors. But any competitive shake-up must confront the appalling jungle of regulations in this sector, as well as the problems posed by the large number of small unmodernised petrol stations. The operators say prices

are higher because costs are greater and average annual turnover smaller than elsewhere in Europe (average the government, which, sales are L80m against an EU norm of L200m). The unions simply fear heavy job losses, claiming that more than 10,000 jobs would be at risk if a price war takes root. Though endorsed by the

to L72 a litre above any tors. While now admitting there is some room for price cuts, they say Eni's move is a "pure bluff" since the reductions are not across the board. They are anxious to forge a deal with the government to ensure that the effects of price cuts are borne less by the operators and more by the petrol companies. This is expected to be hammered out in talks which begin today.

The consumers' association has challenged the right to invoke a strike. But, interestingly, consumers have remained relatively indifferent to the price cuts over the Easter holiday. According to Eni, about 50 per cent in the north opted for self-service. But, in the south, as many Thursday it announced it authority went public last unions, the strike is being as 80 per cent opted to pay was lowering the price of month with a report stating spearheaded by the associathe old price and be served.

Pinprick attacks draw Waigel blood

Pressure from rival has forced CSU leader on defensive, writes Peter Norman

forced to appeal for unity in the Christian Social Union, the party which he leads, following an escalation of rivalry with Mr Edmund Stoiber, the CSU prime min-

ister of Bavaria. In a signed article in Bayernkurier, the CSU newspaper, he has urged "solidarparty, which is the Bavarian Union and provides the second strongest group of MPs in the Bonn coalition.

by name, follows a succes-

r Theo Waigel, guised distaste for the This became apparent when parliament. It is Germany's elections at the state level. controversial suggestion, the friendly journalists. The press in Munich,

where Mr Stoiber has his power base, and in Bonn, where Mr Waigel spends most of his week, has thus ity" on all wings of the discovered a rich seam of stories and shown a determi- finance minister cannot sister of Chancellor Helmut nation to mine the "Theo Kohl's Christian Democratic and Edmund" show for all it is worth. Mr Stoiber has sowed

Mr Waigel's article, which and boss without leaving a did not mention Mr Stoiber trail of damaging quotations. The normally good-natured sion of pinpricks on both Mr Waigel, who is more sides. The two have dis- exposed because of his agreed on taxation, social unpopularity as a budget- politics since 1962, when it cent of the vote in local elecpolicy and Europe, where Mr cutting finance minister, has first gained an absolute tions last year, has decided Stoiber displays a thinly dis- been quick to take offence. majority in the Bavarian in principle to contest future

Germany's finance planned single currency, the he recently warned Mr most effective vote-gathering minister, has been euro. When one makes a Stolber publicly against chal- machine and has dominated controversial suggestion, the lenging him for the leader-other tends to knock it ship. "That would cause a down, often through a back- crack in the CSU from which ground briefing with it would not recover before autumn 1998." he said. The tensions have never

been far below the surface. But they have acquired a new significance because of Germany's economic problems, for which Mr Waigel as escape blame, and the emergence of a new force in Bavarian politics - a group of independent voters doubts about his party rival which could threaten the CSU's absolute majority in Bavaria in state and federal elections, due next year.

The CSU has enjoyed a unique position in German

politics in the state through a mixture of conservatism on ethical and law and order issues, support for generous social welfare benefits, and the encouragement of hightech industries that have transformed Bavaria from a largely rural backwater into clout in Mr Kohl's coalition, one of Germany's most pros-

perous regions. Now, partly because of the unpopularity of the Bonn coalition, the CSU is facing growing criticism at home. Mr Waigel was booed and called a "cowardly pig" by traditionally loyalist farmers at the CSU's Ash Wednesday rally in Passau this year.

The independent voters' group, which won 16 per aria became the first to

Although it lacks a platform and a list of candidates, it could prove attractive to CSU supporters who wish to protest but who would not vote for the opposition Social Democrats and Greens The absolute majorities of

the past 35 years, which have given the CSU extra could therefore be in peril. Initial reactions to Mr Wai-

gel's rallying cry, meanwhile, have not been encouraging. Ms Barbara Stamm. Bavaria's social affairs minister who has differed with Mr Waigel on pension and tax reform, declared that she put no value on such appeals. And the local party in Steinbach in Lower Baydemand that Mr Stoiber replace Mr Waigel as party

leader

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EUROPEAN NEWS DIGEST

Spain defends train safety

The Spanish government defended the safety standards of the country's state-owned railways after 20 people were killed in by two derailments on Monday night and early yesterday morning. Mr Francisco Alvarez-Cascos, deputy prime minister, described the accidents as a "dramatic coincidence". But he told Spanish radio he saw "no reason to change safety concepts".

Officials blamed excess speed for the country's worst rail crash since 1980, in which 18 passengers died and about 90 were injured when three carriages of a packed four-carriage intercity train were hurled off the track near Pamplona in northern Spain. The train, bound from Barcelona to Irún on the western side of the French-Spanish border, was said to have been travelling at 137 kilometres an hour (more than 85 miles an hour) as it crossed the points at a small station, more than four times the regulation speed.

The Renfe rail company said it was too early to reach conclusions about the causes of the night-time derailment of a Barcelona-Mālaga express near Guadalajara, northeast of Madrid. A French woman and a Renfe employee were killed, and 22 others injured in the David White, Madrid

Albania PM visits rebels



Albanian prime minister Bashkim Fino (left) went to the rebel-held south yesterday for the first time since insurgents seized the region last mouth to begin talks with their leaders. Mr Fino arrived by helicopter in the stronghold of Gifrekaster, 30 km from the Greek border, and was greeted warmly by the armed rebels. Mr Fino said he was in the region to meet the "legal representatives of local ower and public order" but quickly moved to discussions with rebels and

elected officials alike. Elected officials have remained in the region but the south has been run by rebel Committees of Public Salvation since the army was driven out and weapons depots looted in early March. Rightwing president Sali Berisha was forced to name

Mr Fino, an opposition Socialist, to head an all-party crisis government on March 11. France has offered 1,000 troops with armoured cars and personnel carriers to a multinational security force to protect humanitarian relief operations in Albania, the

defence ministry said yesterday Italy is putting together a 5,000 strong force for the Balkan nation following approval from the United Nations on Friday. The force is also expected to include contingents from Greece, Spain, Turkey, Romania and

Europay card issue up

Europay, the consortium which manages the MasterCard increase in the number of its cards in issue last year to 149.9m as the plastic card continued to gain ground across

Helped by strong growth in Spain, Turkey and the UK, Europay maintained its edge over the rival Visa consortium, which last year reported a similar rise to 100m cards in Europe. Spending on Europay cards, although 19 per cent higher than in 1995 at \$48.5bn, still lagged Visa's \$841bn. George Graha

French drivers call new strike

French truck drivers yesterday called a fresh strike for May 5 after talks on early retirement broke down, union leaders said. The four main truckers' unions – the CGT, FO, CFTC and FNCR - called the stoppage just four months after a strike and road blockades by drivers paralysed road traffic across the country.

The government's accord in November to back demand for retirement at 55 instead of 60 brought an end to the initial strike. Talks broke down when the parties failed to meet a March 31 deadline to implement the accord. François Poletti, head of the transport section at the FO (Workers Force) union, said spontaneous strikes might start before May 5. ■ Ground staff and pilots of state-owned Air France

Europe yesterday extended a strike in protest at the airline's merger with Air France. Air France Europe was forced to cancel most morning flights from Paris' Orly airport after ground staff voted to continue their strike

Cars sales fall in France

New car sales in France fell by 17.1 per cent year on year last month, taking the adjusted drop to 24.1 per cent for the first quarter, compared with the same period last

Last month's drop was smaller than in January and February, raising hopes car sales might be recovering gradually after collapsing on termination of a government. and industry incentive scheme last year.

New car registrations reached 2.18m in 1996 on the back of the incentive scheme, which ended at the beginning of October. The French carmakers' association yesterday said that new car sales are likely to decline by between 10 and 11 per cent to around 19m units this year: Haig Simonian, Motor Industry Corresponden

ECONOMIC WATCH

Spanish trade deficit falls



Spain's trade gap narrowed by 37 per cent in January, showing the best performance in the the rest of the European Union since it joined 11 rears ago. Figures from the the economy and finance ministry showed the overall trade deficit falling to Pta109.1hn (\$768m) from Pta173.8hn in the same month last year, mainly as a result of strong farm sales. Exports rose 12.5 per cent compared with a 4.9 per cent growth in imports The improvement

continued the trend set last year, when the annual shortfall was reduced by 13.5 per cent to Pta2,504.5bn. Trade with other EU partners, which in 1996 showed an accumulated deficit of Ptasss.7hn, produced a Ptass Shn surplus, with exports growing at almost three times the rate of imports. But this export performance was modest in comparison with a 32 per cent jump in Spain's sales to the rest of the world, attributed partly to competitive gains stemming from the recent strength of the US dollar. Food exports rose overall by more than 20 per cent compared with the same month last year, and sales of David White, Modri capital goods by 17 per cent.

Bulgaria 'example of transition problems'

Bulgaria emerges as a textbook example of what can go wrong in the transition from a centrally planned to a market economy in the first full-scale survey of the Bulgarian economy by the Organisation for Economic Co-operation and Develop-

the virtual collapse of the banking system, a significant decline in GDP, rapid

A local Bulgarian radio broadcast a report yesterday that the government had decided to close down all banks to check their

accounts, writes Anthony Robinson. What was intended as an April Fool's joke, however, proved only too believable to a nation which now keeps most of its money in Jam jars and is quick to believe the worst about the banks, whose mass failure last

think-tank's report was con-cluded before the Socialist tion of an IMF-supported government resigned in Jan- currency board monetary

year caused a confidence crisis that could handicap the sector for decades.

The joke proved too close for comfort for some. "These people should realise that reality in this country is absurd enough and there is no need to play jokes with it," said one angry listener, who called the Reuters newsagency office in Sofia to check the

Co-operation and Development.

devaluation of the lev, down unity to make way for a care—
"While a cartain degree of the digit, monthly inflation, the system after elections on the digit, monthly inflation, the system after elections on the digit, monthly inflation, the system after elections on the control of the system after elections on the system after elections on the system after elections on the control of the system after elections on the syste

win the election. The IMF recently agreed a

conditional on the introducsupply to the level of foreign

The hope is that the crisis to realise painful but necessary decisive measures to deal with loss-making banks and enterprises, accelerate domestic and foreign business," the review says.

The crisis in the banking system emerges as the heart of the problem but "stabilisa-

the World Bank approved by problems in the impleprojects worth \$290m but mentation of key economic both made financial backing laws and regulations, particularly in the areas of taxation of a currency board tion, foreign exchange transactions and prudential regulation for banks," it

As in Russia, the underlymay at last provide a context ing problems are made worse by an "increasingly critical" fiscal problem. The share of tax revenue dropped to 25.5 per cent of GDP in privatisation and improve 1996 against the background the overall environment for of sharply rising domestic

reached 17 per cent of GDP last year, leaving the govern-ment virtually without

Employment flexibility 'common across EU'

By Robert Taylor, Employment Editor

Wage and employment flexibility. are now common across the European Union regardless of country. according to a survey of 303 European-based companies published today by Towers Perrin, the international consultants.

The report found no significant differences between companies operating in mainland Europe and the UK "despite the commonlyheld

European approaches". It found most companies sur-

veyed intend to develop bonus and wage incentive plans in the next two years while nearly half intend to introduce team-based pay reward schemes. As many as 84 per cent of companies said they planned to restructure by the year

"The surprising consistency" found among the companies in

assumption flexible US and UK their "new pay" practices was due practices contrast with regulated to globalisation of markets and technologies and competitive pressures within countries, rather than "any strong move to pan-European reward approaches which are not yet generally apparent in

these organisations The participants included a wide range of leading corporations, including Alcatel Télécom, Banque Indosuez and Crédit Lyonnais in France; Lufthansa and Deutsche Telekom in Germany and Pirelli

and Eni in Italy. Just over half the companies were UK-owned, many with European operations, but the survey also included 13 per cent from Italy, 9 per cent from France and 6 per cent from Spain.

The survey said individual worker performance was now the "most important factor affecting executive and managerial pay increases and increasingly for nonmanagement employees".

However, it also found there has been a fall in involvement of

tion over recent years. "Achieving employee involvement appears werryingly low on the human resource and compensation managers' list of priorities," it said, "despite the evidence that such involvement correlates very strongly with successful imple-

mentation."
"Learning from the Past: Changing for the Future, from Towers Perrin, 77-91 New Oxford Street, London

Taiwan InnovalueSM grabbed Peter Grose with a pen that reads.



As a successful biographer, Peter Grose has spent thousands of hours cross-referencing facts and documents, always longing for a faster compiling system.

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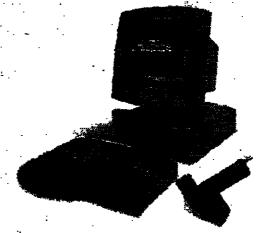
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The Primax DataPen scans the text directly into a computer, like the handsome Acer Aspire, another Gold Award Winner.

Netanyahu talks of forming national unity government

By Judy Dempsey in Jerusalem

Mr Benjamin Netanyahu, the Israeli prime minister. said yesterday he was considering a national unity government in a bid to reach a broad consensus for a final settlement with the Palestin-

His remarks to Israeli Army Radio are the clearest indication to date that the conservative Likud-led coalition may be pushed towards such a government to save the peace process and stem the rapid decline of Israel's international

"I am definitely considering it but I have not taken any decision on the matter," said Mr Netanyahu, hours after two Palestinians. apparently suicide bombers, were killed in explosions targeted at Jewish settlers in the Gaza Strip and after Israeli troops shot dead two

West Bank town of

His remarks follow 13 days of clashes between Israeli soldiers and Palestinians, who continue to protest against the building of a new Jewish settlement at Har Homa in Arab east Jerusa-

Although high-level contacts between the two sides have been suspended, the Palestinian Authority has told its police to try to main-

"We are trying very hard to control the ground. But under Netanyahu, the peace process is slipping away,' said Mr Saeb Erekat, the Palestinians' chief negotiator. "I don't care what form of government there is in Israel as long as it puts the peace process back on track."

The opposition Labour party is divided about joining a national unity government. Mr Ehud Barak, the

day that Mr Netanyahu was "playing for time" by calling

for such a government.
"He is doing this to win back support from his right wing," said Mr Barak, former chief of staff and later foreign minister under Labour. The nationalist parton Mr Netanyahu for their political survival. "A national unity government would also provide him with a moral and political safety net once the police end the investigations into the so-called Bar-On affair," he

This is the alleged scandal surrounding the appoint- Labour has waited for the combat terrorism and in ment of a new attorney general earlier this year. Shas, Mr Netanyahu's coalition partner, allegedly said it would support the Israeli troop pullback from the West Bank town of Hebron in return for its nomination of attorney general being accepted by the cabinet.



outcome of the investigation before committing itself to Supporting or opposing a national unity government although Mr Shimon Peres, its leader, backs such a

Mr Barak said Labour had always unconditionally supported the government to every step of the way to "But there is not enough

in common between both parties for Labour to join a national unity government. I don't see that Netanyahu is committed to the peace process. He is committed to get-

Freeze on Israeli ties the Arch 'the Arab minimum

The decision by Arab League foreign ministers to call a halt to any further links with Israel is the minimum Arab leaders feel they must do to pacify domestic public prime minister Benjamin Netanyahu's expropriation of land in occupied Arab east

While it is still not clear what practical measures the "freeze on normalisation" will translate into, it is intended as a signal to Israel as well as a gesture to the "Arab street"

All Arab governments, especially the modern camp led by Egypt and Jordan, feel the Netanyahu government's continuing colonisation of Arab land is undermining their stability, stirring an upsurge in Islamic fundamentalism in all their countries. They are, as Mr Netanyahu complained on Monday, "ganging up" - but mainly for their own protection.

"You can't play with Jerusalem and be keeps on pressing that particular button. a senior Arab diplomat said yesterday. "What he's playing with is religion, and would not send its trade rep-that's having a serious resentative back to Israel, impact throughout the region. We have to respond."

King Hussein of Jordan, in Washington yesterday for talks on the crisis with President Bill Chnton, told Mr Netanyahu in a letter last month that his attempt to seal off Jerusalem from the Palestinian West Bank was sading the region towards

The Netanyahu government believes that few Arab leaders feel any real solidarthe PLO leader, Mr Yassir Arafat. But the question of Jerusalem, housing the third most sacred shrine in Islam, goes beyond the issue of Palestinian rights. Every time Israel tampers with it, the ground shakes under the

peace with Israel. General Hassan el-Alfi, the Egyptian interior minister, who has spearheaded a campaign against a five-year-old Islamist insurgency he claims to have under control, said yesterday that "this is encouraging terrorism, strengthening those terror groups which had begun to dissolve and encouraging them to unite. When the

Arab regimes, especially

those which have made

tice...millions will be pro-The Arab foreign ministers' unanimous resolution to freeze relations with Israel is a recommendation to their heads of state. But softer proposals last September, after the June Arab warned of a freeze unless Israel kept its commitment to trade conquered Arab land for peace, resulted in Gulf and Maghreb countries

people feel there is injus-

pulling back from further

and Morocco, according to has stopped even taking telephone calls from the Israeli government. King Hassan of Morocco has been a prime mover of Israeli-Arab rapprochement. But he claims descent from the Prophet Mohammed and is responsible for the Jerusalem Committee of the 54-country

Islamic Conference. Arab diplomats in Cairo headquarters of the 22-mem ber Arab League, say all League members are likely to signal opposition to Israeli land grabs. They emphasis the overall objective is to continue the peace process on the agreed land for pears basis. "It's not important whether there's an embass; or not [in Israel]," one said, "but that the message is read and that we are trying to move forward.

The "primary" boycott which the League resolution reaffirms - prohibiting direct Arab trade with Israel - was still technically in force anyway. The more damaging "secondary" boycott on third countries trading with Israel has withered

As a result of the peace process, and the lifting of this boycott, Israel broke into lucrative new markets in the Far East, including Moslem countries such a Indonesia and Malaysia.

The Palestinians and Syrians believe the European Union should review its partnership agreement with summit in Cairo which Israel, which contains unique access to the EU member states' Research and Development Framework Programme - the first real opportunity Israel's flowering high technology industry has had to crack Oman this week said it Europe's single market.

World Bank reform faces close scrutiny

By Robert Chote, Economics Editor

Mr James Wolfensohn won an important victory on Monday in gaining approval ture the World Bank. But as a result he will find his presidency of the development organisation subjected to unforgiving scrutiny while

the plan is put into effect. Mr Wolfensohn has already had to scale down his proposals in order to win approval from his executive board. Implementing the so-called "strategic compact" will now add \$250m to the bank's running costs between now and fiscal 2001, compared to the \$372m originally proposed.

The plan has several objectives. These include shifting resources from administration to front-line operations, developing new services. boosting the technical expertise of staff, decentralising activities to client countries, creating partnerships with other organisations, improving information management and reforming personnel policies.

Mr Wolfensohn claims this will give much greater impact to \$2bn of the bank's \$22bn of lending each year. Given the bank's catalytic role among other lenders, this should generate \$5bn a year more in effective lending for development. The objectives were

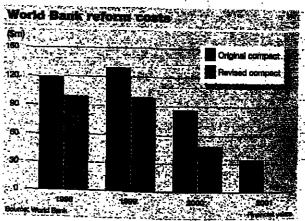
mcontroversial, but the proposed costs took the bank's board members by surprise. Under pressure from the US, the UK and France, among others, the plan will now be phased in over a longer period than Mr Wolfensohn originally intended and running costs will be returned to their current levels by fiscal 2001 rather than showing a 3 per cent incresse.

cessions, but the more important outcome in the long term may be a change in the relationship between the bank's board and the people who run its enormous bureaucracy on a day-to-day the strategic compact was agreed, the bank issued a statement which included a promise that "there will be a biannual review by the board of the bank's senior

This emphasis on internal scrutiny reflects two particular concerns which board members brought up when discussing the compact. First, they are fed up with short-lived promises from management that every reorganisation will be the last. Second, they remember Mr Lewis Preston, Mr Wolfensohn's predeces protect front-line services in the last reorganisation only for them to suffer more than

back-office functions. The US - whose support was pivotal for approval of larly concerned to keep down the cost of redundancles envisaged in the compact, which could see staff numbers cut by up to 700. to pay off staff who could be retrained or reassigned or who are performing unsatisfactorily. The redundancy

every six months When it makes its loans to client countries, the World Bank is used to laying down tough conditions and reviewing progress towards achiev-In finally agreeing to sanction Mr Wolfensohn's ambitious reform plans, the bank's board may be giving its management an overdue



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Alison Maitland and Guy de Jonquières explain the background to the transatlantic trade tiff

The dispute over meat included calls for exporting since the formation of the the dispute to the WTO erupted into trade hostilities between the US and the a new provision contained in the Uruguay Round world

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trade agreement The dispute stems from a failure by the EU and the US to agree hygiene standards for processing plants for poultry and some other

The Uruguay Round provision covers health and is particularly concerned he wanted to continue to hygiene standards for animals and processing plants the so-called sanitary and phytosanitary text - and allows countries to accept imports provided these standards are "equivalent" in the

exporting country. US officials say the aim of stating they comply with EU the text was to overcome standards. The US said it US officials say the aim of outdated demands by importing countries that trading partners exactly replicate their own domestic hygiene rules. These demands had before they are resolved. But

standards which yesterday countries to copy "the colour of the walls (in meat plants), the material used for knife European Union grew out of handles and the square footage of tollets," said one offi-

> Under the new text, the US to resolve trade conflicts. and EU have agreed "veterinary equivalency" rules on many animal products. But poultry, petioods containing dairy and egg products remain unresolved. The EU that US poultry plants do not meet its standards.

The crunch came yesterday when the EU, in the absence of equivalency agreements, introduced requirements that US food exports carry certificates was unable to issue such export certificates and was taking retaliatory measures. Trade disputes are frequently pushed to the brink

World Trade Organisation in 1995, the US has increasingly chosen to use the body's strengthened discutes settlement mechanism - rather than unilateral sanctions -

One reason Washington has not referred this dispute to the WTO is that it still poultry, petioods containing hopes to pressure the EU animal remains, red meat, into reaching a bilateral solution. Mr Dan Glickman, agriculture secretary, said seek an acceptable agreement in the coming months. However, Brussels said yesterday that the US action was regrettable and would

> Much of the sanitary and phytosanitary text is imprecise and open to interpretation. This was underlined yesterday when the Commission appeared to suggest the dispute had nothing to do the late 1980s. The US with trade and was all about dropped its sanctions, leavconsumer welfare. One advantage of bringing

up to hear the case. If the panel's findings were still disnuted the case would go to the WTO appellate body A WTO panel is due to report by the end of May on

US and the EU over meat -

would be to clarify how the

text should work inspractice.

settlement procedure; the

two sides would have 60

days to reach a bilateral

agreement. If this failed, a

disputes panel could be set

Under the WTO's dispute

hormone-treated US beef. The US complained to the WTO last year about the EU's import ban, triggering a counter-complaint by the EU against retaliatory US sanctions that had been in place on a range of foodstuffs since the row began in ing the main case still to be



Dan Glickman: seeking an acceptable agreement in coming

Giat in \$4.7bn arms bid group

Giat Industries, the French defence equipment manufacturer, yesterday joined forces with GKN of the UK and German engineering groups Krauss Maffei and Rheinmetall to bid for the \$4.77bn European multi-role armoured vehicle (MRAV) ammersong

The company announced it would work with its Anglo-German partners to develop common compotrial organisation" to limit development and production

News of Giat's decision coincided with yesterday's deadline for the submission of bids to build initially 200 armoured vehicles each for France, Germany and the

If the GKN-Giat-Krauss Maffel-Rheinmetall consortium was successful, the companies would form a single contracting agency to allocate production among

the four manufacturers. Officials at GKN said the did not participate. alliance might develop into a more formal joint venture in

very important because it is the favourite to win the French order for armoured infantry fighting vehicles,' GKN said.

Some industry analysts believe pressure for defence consolidation could ultimately lead to mergers among some of the partners. The rival MRAV consortium - comprising Vickers Henschel of Germany - yes-terday played down the importance of Giat's move. it has signed up Panbard

iary of Peugeot-Citroen, to bid for the French order. "This is not a blow because the French decision is not the key factor - who wins the order from Germany and the UK is more

the armoured vehicle subsid-

important," according to A decision on the orders is expected early in 1998. The UK joined the MRAV

programme last year after being threatened with exclusion from the Bonn-based European arms agency if it For the UK manufacturers

involved, a share of the order would soak up excess "To get Giat on side is capacity at their plants.

WORLD TRADE NEWS DIGEST

China's 'bridge' to foreign funds

China's Junshan bridge development, which combines private and World Bank finance, could prove a model project paving the way for greater private investment in the country's capital-hungry infrastructure programme,

according to the World Bank. The bridge is to be built across the Yangste River, near Wuhan in the central province of Hubel. The World Bank is managing the associated highway investments, while private investors are being sought to build the bridge. A

roadshow to solicit interest starts next month.

Mr Nicholas Hope, director of the Bank's China and Mongolia department, said: "Our infrastructure programme does encourage the development of a framework to allow greater involvement of foreign private investors in China's infrastructure. . . If successful, this bridge project can pave the way for many more of these types of projects in China, and probably not involving the

World Bank or Asian Development Bank." The deal comes as China enters what is expected to be concessionary lending arm. Its share of loans by the International Development Association (IDA) - the bank's soft loan arm - has already been cut by a third from \$3bn, in the three years 1991 to 1994 to \$2bn in the spibsequent three years. For the corrent programme, from 1997 to 1999, IDA lending is expected to fall to \$900m. China is the biggest beneficiary of World Bank lending, borrowing \$3bn a year since 1993. Of this, 40 to 45 per cent goes into infrastructure development. Louise Lucus, Hong Kong

EU launches satellite protest

The European Commission is to complain to the World Trade Organisation that Japan favoured US bidders in a \$40m contract for a global satellite navigation system. In its tender, Japan restricted suppliers to the use of US technical specifications, thereby excluding European companies. The Commission said this was a violation of Japan's obligations under the non-discrimination and transparency provisions of the WTO Government Procurement Agreement.

The Japanese ministry of transport is working on a Multi Functional Transport Satellite project aiming to launch a satellite by 1999. They plan to develop a global navigation system for aircraft, adapted to Japan's specific needs. Similar projects have been launched in the US and the EU, on the basis of different technical specifications. Foreign staff, London

NEC fights dumping decision

NEC said yesterday it would contest an anti-dumping move against Japanese supercomputer makers by the US Commerce department. The Japanese computer maker faces dumping margins of 454 per cent on US supercomputer sales. The Commerce department's preliminary decision backed a complaint by Cray Research, which claimed that Japanese manufacturers had offered vector supercomputers in the US at less than fair value. Mr Masac Toka, an executive vice president of NEC, said: "The dumping investigation was targeted at preventing supercomputer procurement from outside the United States, and is based on an unfair and biased" investigation by the Commerce department "centred on information from Cray." NEC has filed a suit at the US Court of International Trade asking that the Commerce Department investigation be stopped and calling for a third party to carry out an impartial investigation.

Mr Robert Ewald, the president of Cray said: "The

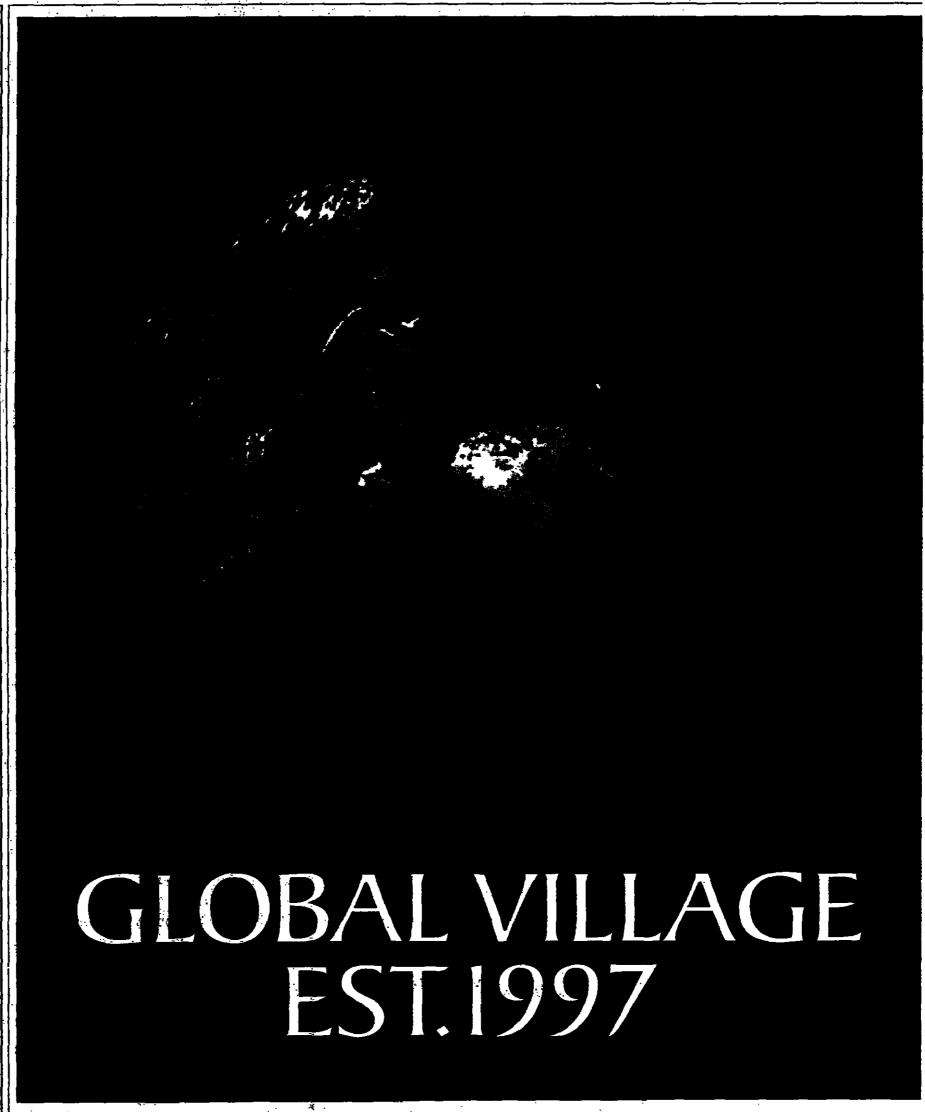
findings confirm what we have contended since last July namely that the four vector supercomputers offered to the University Corporation for Atmospheric Research by NEC were illegally dumped."

Rolls-Royce has won an order worth up to \$240m to supply engines for Boeing 757 aircraft being purchased by Continental Airlines of the US. Continental has placed firm orders and acquired options on 16 Boeing 757s. Rolls-Royce supplies engines for 80 per cent of the world's

The UK group hopes to win further orders after Delia Air Lines of the US announced recently that it would buy Michael Skapinker, London. up to 115 Boeing 757s.

 Japan and 45 other nations have erected trade barriers that are costing US businesses billions of dollars, the Clinton Administration says in its annual review of unfair trade practices. "Many markets around the world remain closed to US exports and to the extent our trade deficit is the result of these barriers... they must be reduced," said the US Trade Representative, Ms Chariene Barshefsky. In addition to 46 individual countries, the report of the most onerous trade barriers around the world also included four trading groups, including the 15-nation European

■ Japan is to lend Y2L9bn (\$177m) to Romania for transport improvements. Most of the money is for building a container terminal at Constanta, the country's main port, able to take 380,000 containers a year. The rest will be used for roads. The loan carries interest of 2.7 per will be used for rosus. The rosus carries measured at 2.7 per cent a year and is to be repaid over 30 years, with a grace Anatol Lieven, Bucharest



The Global Village: an idea said to have originated from Marshall McLuhan back in the '60s. in the Internet.

A concept looking for an implementor. A motion that needed vision, of course, but also some down-to-earth things.

Such as capital and a network big enough to bringall the existing villages together.

Such as the vision to have invested early and on-the-ground support.

worldwide.

Such as the ability to build partnerships and alliances which provide local understanding village the size of a planet.

The promise of the creation of Concert plc Such as the commitment to embrace from the proposed merger of BT and MCI will competition and bring choice to customers mean nothing less than the first communications company for the world.

And the official opening of the gates to a



US figures point to stronger growth

By Gerard Baker

The already strong pace of US economic growth appears to be gaining momentum, according to a need to take pre-emptive action clutch of reports published yester-

February, a key index of leading economic indicators recorded its in the same month, and the nation's purchasing managers reported a sharp rise in manufacturing activity in March.

The figures, which all exceeded analysts' expectations, will provide fears of higher interest rates had index rose to 55 per cent, from 53.1 sector research group, said its prin-prices.

more grist for the Federal Reserve produced over the weekend the per cent in February. A figure cipal index of leading indicators increasingly like a runaway economy. The central bank, citing the against inflationary pressures, last week raised short-term interest Construction spending surged in rates for the first time in two years. Evidence of continuing economic strength is likely to mean the quarter point rise will be followed by further increases in coming months.

But US financial markets reacted economic expansion, although

in its struggle to rein in what looks largest two-day fall in stock prices

Helped by unseasonably mild jumped 2.3 per cent in February, the fastest rate of increase in 11 months, the Commerce Department reported. The rise followed a downwardly revised 0.3 per cent increase in January.

The National Association of Purchasing Management reported that economic activity in the manufaccalmly to the latest signs of rapid turing sector accelerated last month. The purchasing managers'

manufacturing sector is growing. The March figure was the highest increase was accounted for by a last August to February. sharp rise in new orders.

increases were at a slower rate than in February".

The Conference Board, a private

above 50 suggests activity in the rose 0.5 per cent in February. The index, a reliable guide to economic activity about six months ahead, weather, construction spending in two years. The bulk of the rose 1.1 per cent in the period from

Overall, the US economy grew at But there was still little sign of an annual rate of 3.9 per cent in ness survey committee, said its price index "indicated a continuing increase in prices naid have been only slightly slower. In calculations of the price index "indicated a continuing increase in prices naid have been only slightly slower. In calculations of the prices naid have been only slightly slower. In calculations of the prices naid have been only slightly slower. In calculations of the prices of th tion, the Fed clearly believes that pace of growth, if maintained, would produce an acceleration in

President Bill Clinton

Washington.

yesterday sought a study

into the effects of a ban on

televised advertisements for

liquor. Reuter reports from

The president, expressing

concern over the ending in

regulates broadcasting – to

look into the effects of sharp

The same issues - high

technology, civil liberties

and the separation of powers

- are at stake in another

ornia was a sophisticated

user of the Internet to

attract followers.

November of a 50-year

voluntary embargo on television advertising by the alcoholic spirits industry, is

to ask the Federal

Commission - which

Immigration law off to chaotic start

By Gerard Baker in Washington and Daniel Dombey in Mexico City

new law designed to toughen rules on immigration into the US took effect yesterday after a chaotic 24 hours in which the law's introduction was delayed by one federal court then reinstated by another.

Early yesterday morning an appeals court in Washington overterned a ruling on Monday by a US district court that the law's provisions concerning the treatment of illegal immigrants should not take effect as scheduled vesterday because the government had given insufficient notice of its implementation.

The law, which is part of an omnibus statute passed by Congress last year, contains tough guidelines for immigration officers. These stiffen conditions for the granting of political asylum, make it easier for immigration officers to deport arriving foreigners, and make it harder for offenders to win a waiver of deportation.

US district judge Emmet Sullivan on Monday agreed with civil rights groups that the rule changes were so significant that they required a statutory 30-day notice period before they could take effect. He delayed implementation of the rules until next Saturday, 30 days after they

were published. But government lawyers successfully argued before an appeals court yesterday that delay would result in chaos for immigration officers as they would have no regulations to guide them on how to treat outstanding cases. Thousands of pending deportation cases might be lost because of the postpone-

"It's going to be sheer chaos," Ms Linda Wendtland, an attorney for the May 6-7.

Justice Department, told the

Civil rights groups were planning a further challenge to the law yesterday, hoping to persuade another district judge that the rules for immigration officers do not properly require them to inform arriving immigrants that they may have the right of political asylum in the US.

A row is brewing in Mexico over the controversial measures, adding to recent strains in the relationship between Mexico and its northern neighbour just a month before President Bill Clinton's scheduled visit.

There are up to 3m Mexicans living and working illegally in the US, and Mexican politicians have condemned rules prohibiting illegal US for up to 10 years and withdrawing some forms of welfare from migrants.

Recent moves by the US Congress to block Mr Clinton's certification of Mexico as a partner in the drug war have also increased suspi-

The US has the right to make laws which apply to its own territory," said Mr Carlos Jiménez Macias, a senator for the ruling Institutional Revolutionary party. "But Mexico cannot allow this legislation to pass since it affects the human rights [of Mexicans]."

Mexican consuls and legislators have lined up to say that the new US law will result in mass deportations, a claim dismissed by the US The Mexican government said it had protested against the measures since October. However, Ernesto Zedillo's government is painfully aware of its inability to influence the immigration debate in the US, and is concerned that the issue does not overshadow Mr Clinton's visit on

Cuba casts a Broadcasters win US fight wider tax net for access to small screen

By Pascal Fletcher

Cuba's tax authorities are rency income from "national that threatens to discourage foreign investment

After reintroducing personal income taxes for some Cubans in a society which had remained virtually taxfree for nearly three decades, the island's new tax authorities are now setting their sights on foreign residents.

Last month representatives of foreign banks and other companies operating in Cuba received a circular from the Cuban Chamber of Commerce advising them that all foreigners who were days in each calendar year were required to present hard-currency tax returns for 1996 by March 31.

The circular confused foreign residents in Cuba. many of whom had been bemused by the government's efforts to reintroduce income tax among Cubans after so many years.

"What is confusing is who is eligible and who isn't." one foreign businessman said. Many foreign residents. including company representatives, said they believed rency operating costs in they were not liable to pay Cuba, which are already contaxes. They cited a 1994 sidered high.

Cuban tax law which indicated that only foreign resi-dents who received hard-cursources" were expected to pay taxes, also in hard cur-

But officials from Cuba's new National Tax Administration Office are saying that "national sources" means "activities carried out in Cuba", which would cover most foreign residents.

Diplomats and representatives of international organisations are exempt from paying personal income taxes in Cuba in cases where reciprocal agreements exist. Cuba's 1995 foreign invest-

ment law also exempts foreign partners of joint ventures. But many foreign company representatives and contract workers have been forced to seek legal advice. Cuban peso salaries are

not taxed. But selective taxes on peso and hard-currency incomes are already being applied to some locals, especially self-employed workers, artists and entertainers. Some husinessmen helieve the move would place a fur-

ther burden on hard-cur-

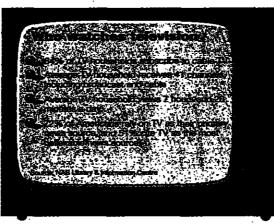
By Bruce Clark in Washington

US broadcasters were savouring victory yesterday after a sharply divided Sunreme Court upheld a law that requires cable television operators to retransmit material from local television stations. The law had been challenged by Turner Broadcasting Systems and other leading players in the country's \$25bn-a-year cable television sector.

The "must-carry" provision in the 1992 Cable Act had been attacked by industry executives because it forces them to devote a minimum number of channels to broadcast television, even if this displaces cable services.

But Mr Dennis Wharton,

vice-president of the National Association of Broadcasters, hailed the 5-4 court verdict as a 'great decision" which would secure the future of at least 1,500 local stations. While the main broadcasting networks are paid money to have their programmes retransmitted by the cable broadcasters – for example Spanish-language and religious stations - rely on the



that covers Congress and other public events, has complained it is being crowded by broadcast services under the "must-carry"

Both sides in the dispute cable services which fear being crowded out by broadcasters, and broadcasters which believe their programming could be dropped have presented the issue as a test of free speech. The 40page verdict will be studied networks, many smaller as a guide to how the of extreme judicial Supreme Court interprets restraint," he said. "The the first amendment, guaranteeing freedom of speech. "must-carry" provision to in an age of communications systems that the framers of disturb it."

C-Span, the cable network the US constitution never

important test of the balance of power between Congress and the judiclary as both attempt to define free speech in the information era. Mr Dan Brenner, vice-pres ident of the National Cable Television Association, regretted the fact that, in its dgment, a majority of the court's justices voiced respect for the views of legislators: "This is an example

ever decision Congress has

made, we are not going to

sensitive case pending before the court: a bid by freespeech advocates to strike down the Communications Decency Act, which aims to outlaw pornographic material on the Internet. Public concern over the abuses of the Internet, ranging from sexual titiliation to propaganda by ultra-right groups, has risen to new heights this week following revelations that the cult involved in a court is telling us that whatsuicide by 39 people in Calif-

curbs.

CONTRACTS & TENDERS

PRIVATISATION: BULGARIA

PRIVATISATION OF LARGE STATE COMPANIES SHORTLISTING OF FINANCIAL ADVISERS

AND TRANSACTION AGENTS

Following the agreement with the International Monetary Fund on a programme of structural reforms, including accelerated privatisation of major state companies, the Government of Bulgaria seeks to appoint International financial advisers and transaction agents in the sale of:

AIR TRANSPORTATION: Balkan Airlines SPJSCo.

CHEMICAL AND PETROCHEMICAL INDUSTRY: Agrobiohim SPJSCo. (bio-products), Antibiotic SPJSCo. (drugs), Capitan Dyado Nikola SPJSCo. (plastic pipes), Neohim SPJSCo. (fertilisers), Neftochim SPJSCo. (oil refining & petrochemicals), Petrol SPJSCo. (gasoline distributor/retailer), Sviloza SPJSCo. (viscose rayon), Verila SPJSCo. (bio-products)

FERROUS METALLURGY: Promet SPJSCo. (profiles)

NON-FERROUS METALLURGY: Asarel-Medet SPJSCo. (copper refinery)

MACHINE TOOLS AND METALWORKING ENGINEERING: Bourgas Shipyard SPJSCo., Rousse Shipyard SPJSCo., Varna Shipyard SPJSCo., Kremikovtzi SPJSCo. (steelworks), Stomana SPJSCo. (steelworks), ZMM-Stomana SPJSCo. (machine tools), Chavdar SPJSCo. (motor vehicles), Tespom SPJSCo. (technological equipment)

ELECTRONICS AND ELECTRICAL ENGINEERING: Izoma SPJSCo. (insulation materials)

TEXTILE AND KNITWEAR INDUSTRY: Vitosha 47 SPJSCo. (garments) TOURISM: Dyuni SPJSCo. (tourist resort)

Investment banks and consulting companies with relevant experience in the privatisation of companies in transition economies are invited to express their interest regarding the privatisation of one or more of the above listed companies.

As invitations for proposals concerning specific enterprises will be issued from April 21, 1997 onwards, interested investment banks and consulting companies should present their qualifications to the Privatisation Agency by 3 pm on April 18, 1997. The shortlisted firms will receive terms of reference and the deadlines for receiving offers in due time.

Privatisation Agency, 29 Aksakov St., 1000 Sofia, Bulgaria Contact Persons: Mrs Staneva, Tel: (+359 2) 980 5460 Ms Varkova, Tel: (+359 2) 980 8275 Fax: (+359 2) 981 6201

American (III) Chamber Of Commerce In Egypt

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Posts

power to fire PM

By Farhan Bokhari in Islamabad

Pakistan's government and opposition united yesterday as MPs voted unanimously to repeal the controversial power of the president to sack elected governments a power used four times in the past nine years.

They also took away the president's powers to appoint the governors of the country's four provinces the heads of the armed forces and the chairman of the joint chiefs of staff.

The repeal bill, which went through the upper and lower houses of parliament in a single day, appears to strengthen considerably the position of Mr Nawaz Sharif, the prime minister.

Western diplomats and independent analysts said the legislation would make Mr Sharif one of the most powerful prime ministers in Pakistan's 50-year history, almost half of which has seen the country run by military regimes.

By contrast, the president becomes a largely ceremonial figure whose main executive role is the appointment of judges.

The powers abolished yes terday were taken in 1985 by General Zia ul Haq, who had ruled as military dictator since 1977. He secured referendum backing for the powers, then ruled as civilian dictator until his death in

Mr Sharif has left in place a provision which granted the armed forces immunity from prosecution for actions under eight years of martial

law from 1977 to 1985. Ms Benazir Bhutto, the opposition leader, who was sacked as premier by the president in November, described the new legislation as "a victory for every worker who raised their

torship and for democracy"... Mr Sharif, who was himself dismissed as prime minister in 1993, described vesterday as "a great day for parliamentary democracy".

The speed with which Mr Sharif acted caught many analysts by surprise. He had been silent on the issue since Pakistan's February 3 elections, then announced his repeal decision on Monday night.

Mr Sharif said Mr Farooq Leghari, the president, agreed with the proposed amendments. Mr Leghari was yesterday himself said to be in his village in the south of Punjab where he arrived on Sunday.

The changes left lingering concerns over the future role of the armed forces in Pakistan's civilian decision mak-

In January, Mr Leghari formed the Council for Defence and National Security, including the three armed forces chiefs and the chairman of the joint staff committee, with the president, prime minister, and the ministers of defence, finance, the interior and foreign affairs.

The council has been criticised by democratic and human rights activists as giving representation to the nerals in civilian decision

making. Mr Sharif yesterday refused to discuss the fate of the council, which is empowered to discuss and advise on a range of issues including the economy. internal security and foreign

Pakistan Japanese adapt to sales tax rise

By Bethan Hutton in Tokyo

Japan's higher consumption tax. which brought down one government and almost broke a coalition before it was passed two years ago, came into force yesterday accompanied by grumbles from shoppers and apologetic smiles from sellers.

Mr Ryutaro Hashimoto, the prime minister, asked for people's "under-standing and co-operation" in the smooth implementation of the tax rate increase, from 3 per cent to 5 increase may be much greater in the per cent.

The extra Y5.000bn (\$40.6bn) revenue expected from the increase is intended to help Japan cope with the burden of its ageing population. Moving from direct to indirect taxa-

ers is shrinking as the number of ing this year, but some decline is pénsioners rises.

Introduction of the original 3 per cent consumption tax in 1989 was widely blamed for the downfall of the Liberal Democratic party govern-ment, which had governed the country for a nearly uninterrupted spell since the second world war. Reaction this time has been more resigned, although the impact of the tax current economic conditions. Japan is slowly emerging from a long economic downturn.

The higher tax will cost the average family Y85,000 (\$690) a year, says the Japan Consumers' Co-operative

tion is seen as particularly necessary Union, Economists disagree about house purchases also appear to have because the pool of income tax pay- its likely impact on consumer spendinevitable in the short term.

Shoppers have had plenty of time to get ready for the increase - it was announced in November 1994 and confirmed in June last year - but in the run-up to the introduction of the tax, shoppers still rushed to buy bigticket items in order to save a few thousand yen.

Shops and petrol stations open 24 hours were doing brisk business just before midnight on March 31, and Akihabara, Tokyo's main shopping district for electrical appliances and computers, had a busy weekend. Car sales for the first quarter were lifted

been affected.

More upsetting for consumers than the actual increase may be the growing confusion over price labelling. Remarkably, for a country as heavily regulated as Japan, there are no rules on whether marked prices should include tax. Even in the same shop, the price printed on a pack of noodles will not include tax, but that on a magazine will.

More confusingly, publishers p say that in future book and mage zine prices will not include tax, while department stores say they may show both pre- and post-tax prices, to avoid shocking buyers of big-ticket items at the checkout.

Property blues show sign of lifting

Bethan Hutton and Jonathan Annells report on a new mood of confidence

apan's property bubble took six years to pump itself up, and has now been losing air for six years. But in the past few weeks, there has been a renewed mood of confidence that the shimo may be at an end. Hopes are based on gov-

ernment measures announced this week to help the property market, renewed interest from foreign investors and better than expected results from some highprofile land auctions. The biggest auction

involved the sale of a site owned by the defunct Japan National Railways (JNR) in the prime business district. port. The buyer was Pacific Century, a Hong Kong-based company run by Mr Richard Li, son of Mr Li Ka-shing, the Hong Kong billionaire. Pacific Century paid Y86.8bn, or Y17.8m (\$145,000) per square metre, for the plot - about 65 per cent more than the predicted

This and other JNR land packages excited the market. They were uniquely attractive: large blocks of land in prime locations next to main stations. They came with added inducements, such as permission for a higher ratio of floor space to land area. But most property waiting to voice against military dicta-nese cities: small, awk-last year, Osaka's fell 9.9 per upgrade, a move which quarters, commercial office are burdened with, and so wardly shaped blocks in cent average locations, not neces-

By Tony Walker in Beijing

The rise of "oriental

cultures" driven by a rapidly

modernising China will

counter western influence

and help maintain interna-

to an influential Chinese

and Management, in a wide-

global trends and forecasts

that Sino-US relations will

improve "irrespective of unavoidable frictions".

young western-educated

scholars, supplies research material to China's leaders

and is known to have the ear

of President Jiang Zemin. Its

report is more forthright

than standard Chinese secu-

rity assessments released to

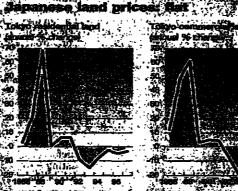
the public.
"The world will basically

move forward along the road

of political stability," the report says. "The momen-

tum of westernisation will

be checked by the rapid



sarily convenient for trans-

The question is whether enough of Japan's property glut is of a high enough standard to attract the same kind of interest. The price of prime land in

Tokyo and Osaka has fallen by as much as 80 per cent from its peak value in 1991. According to the National Land Agency, land prices fell last year for the sixth year running, by an average of 2.9 There is some evidence

that prices in some areas. property, may be bottoming rents for high quality office out. But in other key areas such as commercial property increase again, as vacancy The rental market, on the the Kobe earthquake.

Beijing study predicts

further world stability

The report forecasts a

favourable international

"major world; power". It also

stand" in 1996, a reference to

Angered by what it

missiles into waters off the

In an unfortunate choice

of words, given allegations

cratic presidential campaign,

the report says that to improve Sino-US under-

standing "public relations on

US Congress and media

ditions and policies." ...

The report identifies west-

of oriental cultures."

The Institute of Strategy regarded as Taiwan's bolster its position, and Management, in a wide- attempts to increase its "After the return

Sino-US relations..

tional stability, according praises Beijing's "firmer

"think tank" which is its handling of the Taiwan supported by the militiessue.

ranging and unusually can-"international living space", did public assessment for a China early last year fired

Chinese institution, is relamissiles into waters off the tively optimistic about island, prompting a chill in

may in the US over possible Chi-The institute, staffed by nese fulling of the Demo-

growth of east Asian econo- to Beiling's efforts to tries.

mies and the strengthening improve its international

environment for China's con-tinued inexorable rise as a ment.

should be conducted more tity co-operations will be vigorously".

"Unofficial channels The report is optimistic should be utilised to give the about the world economy,

American public a more bal- saying that developed counanced picture of China's con- tries will emerge from stag-

ern concerns about a "China higher growth will be main-

threat" as the main obstacle stained in developing coun-

other hand, may be stronger.

Tokyo's total office stock amounts to some 400m square feet, compared to 250m square feet in London. Yet the fact that bond yields have dropped below theoretical yields on property for the first time ever, while the cost of borrowing money at

less than 3 per cent is promising, even if prices have not bottomed out, the chances of property have improved. Mr Guy Cubitt, representainternational property conand for some categories of sultants Richard Ellis, says

, increased in the aftermath of

relations. It accuses China's

critics of "seizing on human rights" as a pretext

But in spite of such opposi-

tion the report says China's

economic power; will not be

checked, and the resumption

of sovereignty over Hong

Kong on July 1 will further

"After the return of Hong

Kong to China, the country

will have a combined gross

national product of \$1,000hn

and combined exports

amounting to about 5 per

cent of the world total, rank-

ing fourth or fifth in the

world," the report says.

The report also says that

prevention of "another cold

war" will be a basic princi-ple guiding leading powers

in the years to 2000, and it

forecasts that regional secu-

nation to achieve annual

growth of 2-3 per cent, while

space are beginning to

Shiodome buyers was Alderearning a decent return on ney Investments of Singative director in Tokyo of about the Japanese property

apartment buildines.

The new found optimism market started with the nant market, such as Shiodome land auction in February, at which 5.25 hectares of prime Tokyo land on the site of a former rail in Tokyo - further falls are rates drop rapidly. Tenants freight station was sold to come on to the market is expected. Tokyo commercial, have been taking advantage three consortia for develop- unities the property-backed more typical for large Japa- property fell 13.2 per cent of the lower prices to ment into corporate head- non-performing loans they space, cultural facilities and

Tokyo no longer appears

with Hong Kong or Singa-

eign buyers.

Additionally, rents are The land had been put up now at such a level that for sale by the JNR Settlement Corporation, which was set up to dispose of the JNR's legacy of debt after its break-up in 1998. The auc-

pore, a fact which has attracted the attention of fortion netted Y872.3bn, or eign buyers. Y7.07m per square metre, Besides Pacific Century, slightly higher than initial Samsung recently bought expectations. Last month, half a 19-storey Tokyo buildanother JNR plot by Osaka ing for Y10hn, and one of the station fetched more than expected, at Y4.7m per square metre.

The government has also this year introduced several measures to help the stage increasing plot ratios, and simplifying tax treatment for land transactions. The latest day, will help banks to secpossibly help liquidity in the market

ASIA-PACIFIC NEWS DIGEST

Malaysia sets listing rules

Malaysia yesterday announced guidelines under which foreign companies may seek to list their shares on the Kuala Lumpur Stock Exchange. The move is part of the country's drive to broaden and deepen its financial markets to compete as a regional financial market against Hong Kong and Singapore. Initially, only foreign companies with "substantial" Malaysian interests will be considered. The shares of all listed companies are to be denominated in the ringgit, Malaysia's currency. Only primary listings would be allowed, a statement from the Securities Commission said.

The commission defined "substantial" Malaysian interests as when resident Malaysians owned more than 🗸 50 per cent of the company's paid-up capital, or when the largest shareholder of the company was Malaysian and owned more than 33 per cent of the company. In effect, the most likely candidates for listings are overseas companies acquired by Malayslans, such as Lotus, the UK James Kynge, Kuala Lumpun

Thais to ease ownership curbs

Thailand may soon relax foreign ownership restrictions on finance companies as a way to provide the struggling industry with a quick cash injection, the finance minister Mr Amnuay Viravan, said yesterday. But it will keep the foreign ownership restrictions on commercial banks at 25 per cent. Under existing regulations foreigners may own up to 25 per cent of finance companies, but several international financial institutions have expressed interest in investing in the sector if the limit was raised. Given the liquidity crunch at some companies, Mr Amnuay said a relaxation on foreign ownership restrictions "is in the pipeline for the finance companies"

The draft of the country's first securitisation law, which should give financial institutions access to more stable long-term funding, was passed by the Thai cabinet

■ Thailand's inflation rate rose 4.5 per cent year-on-year in March, led by a 5.7 per cent rise in food prices. Although the rate was higher than February's 4 per cent, on a year-on-year basis the inflation rate has slowed for seven straight months. Ted Bardacke, Bangkol

Victoria to sell power grid

Privatisation of state owned electricity assets in the Australian state of Victoria took another step forward yesterday, when ministers announced they were about to invite bids for the power grid. The state government, which has already sold the distribution businesses and is in the process of disposing of power stations, said it expected the sale in the second half of 1997. Legislation for price regulation and to protect standards would be introduced shortly. Simultaneously, Victoria's state government announced

it was selling the 49 per cent of the Loy Yang B power station to Edison Mission Energy of the US. Edison Mission bought the other 51 per cent of Loy Yang - a 1,000MW generator - in late-1992. Nikki Tait, Sydney

■ South Korea's trade deficit rose 78 per cent to \$7.4bn during the first quarter of this year, almost half of the official target of \$14bn-\$16bn for 1997 against \$23.7bn in John Burton, Seoul

Foreign investment in the Philippines reached 490bn pesos (\$18.6bn) in 1996, beating the government's forecast of 4650m pesos, according to official figures. Japan was the biggest foreign direct investor with 9.5hn pesos, followed by the US with 4.1bn pesos. Justin Marozzi, Manila

...BUT NOT NEW SEAT"

"LONG

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yesterday suggested the party could reach a political deal with the minority United Front government that it undermined at the weekend, and avoid a noconfidence vote next week, if Mr H.D. Deve Gowda first resigns as prime minister and coalition leader. Mr Sitaram Kesri, the Con-

Congress party officials

By Mark Nicholson in New Delhi

gress leader, who has plunged India into political turmoil by withdrawing parliamentary support from the UF, has also insisted that Congress assume the leadership of the "secular forces" government.

However, an aide to Mr Kesri said that "if Mr sible," adding: "If he goes, ernment's recent business Figure 1 A Land Control

Congress backing, to keep avert a "national crisis". the "communal" Bharatiya Janata party (BJP) from that Mr Gowda has forfeited alternative government

power - to avert a confidence vote set for April 11: lar" UF having "allowed" which could plunge India under his 10-month tenure back into a snap election. But with several more

leadership change and is said one UF leader.

UF leaders, meanwhile, Mr Kesri said that "I Mr sought to salvage the gov- charges anything is possonght to salvage the gov- charges anything the gov- charges anything the gov- charges anything the gov- charges anything the gov- charges are governed to the gov- charges anything the gov- charges are governed to the gov- charges anything the gov- charges anything the gov- charges anything the gov- charges anything the gov- charges are governed to the gov- charges anything the gov- charges anything the gov- charges anything the gov- charges are gov- charges and gov- charges are gov- charges anything the gov- charges are gov- charges and gov- charges are gov- charges anything the gov- charges are gov- charges and gov- charges are gov

Congress targets Gowda in deal here will be no vote." friendly: budget from the the 176-seat UF would The remarks suggest Conpolitical crisis, calling on the appear bound to lose the

the right to head the "secuthe formation of elected. coalition governments in

days political brinkmanship Punjab and Uttar Pradesh weekend with bureaucratic in prospect, the UF has ruled states which include the out as "non-negotiable" any Hindu nationalist BIP. · Mr Kesri's critics allege instead hoping the threat of that the Congress leader liarelections will force Congress bours a personal gridge MPs to reconsider Mr Kesti's against Mr Gowda, believing move "We're just allowing him to be waging a vindic that pressure to mount," tive campaign against him, said one UF leader. one threatening eventual criminal and corruption

gress is seeking a deal with BJP, the largest single party, confidence vote in the 543the UF - a 13-party grouping and Congress to allow a vote seat house. But there are which combined after last on the Finance Bill before also no signs that Mr Kesri year's elections, with the confidence motion to has yet won Congress any

The political stand-off has. meanwhile, undermined any promise of progress in talks between India and Pakistan. which had resumed this contacts after a chilly threeyear break

political support, without Mr Kesri's camp claims which it could not form an

> Indian officials said no "substantive" progress was now possible until the comtry's political crisis was resolved, thus reducing to the level of courtesy an expected meeting between the two sides' foreign minis

By John Gapper, Banking Editor

Merrill Lynch, the US investment bank, said vesterday it was tackling a number of "unreconciled balances" in the accounts of its equity derivatives arm in London, but it did not expect

Merrill, which discovered the unreconciled balances when it started to transfer its equity derivatives balance sheets from one subsidiary to another, said it was likely to lose only "an insig-nificant amount" through the errors.

Although the losses are likely to be minor, they come amid concern at many banks at the potential to lose money in trading or accounting errors, particularly within derivatives arms where financial contracts may be complex.

In 1994, Salomon Brothers. the US investment bank. took a \$278m charge against profits to cover accounting errors that mostly occurred in its London operations. Salomon was later disciplined by City of London

The Securities and Futures Authority said yesterday that it had been notified by thing sinister

Merrill about the accounting

The SFA said it had no plans to investigate the com-Merrill emphasised that no

customer would lose money as a result of these errors, and there had been no mispricing by traders. One Merrill executive

described the accounting errors as "housekeeping stuff" that could be cor rected.

The investment bank has brought a small team of accounting specialists and back office staff from New York to handle the switching of the accounts from its capital markets arm to Merrill Lynch International, its

Merrill originally decided to move equity derivatives into Merrill Lynch International to place it in a regulated entity.

The equity derivatives operation mainly buys and sells listed and over-thecounter derivatives for cus-

The SFA said that it was being "kept up to date frequently" by the US com-pany. It added that there had been "no suggestion of any-

Nuclear fleet refit cost soars

Defence Correspondent

New facilities to refit grounds that the competi-Britain's Trident nuclear missile submarine fleet at tive purposes only and Devonport in south-west excluded some costs to make England will cost about comparisons between the £350m (\$556.5m) - almost 50 rivals easier. It had previper cent more than the ously refused to reveal £237m quoted when the contract was awarded in 1993, the Ministry of Defence has

DML, the company which now owns the vard, beat off slender £13m difference, ject to heavy penalty clauses which has since been if the facilities are not ready dwarfed by a £113m cost in time for Vanguard. increase, the winning yard will get exclusive refit work the costs are higher because worth several billion pounds DML will provide facilities over the 30-year life of the not covered in the original

submarine Vanguard has to 1993 competition.

ministry is justifying the price increase on the tion in 1993 was for comparadetails of the cost of the controversial facilities.

The ministry says the price of the facilities will fall in a range of £335m-£359m depending on incentive fees a £250m bid from Rosyth in to be paid to DML for com-1993. Although the decision However, the ministry also was made on the basis of a insists that DML will be sub-

The ministry claims that bid. A large element of the DML will start work on increase comes because the facilities immediately, more of the risk for handling because there is barely time the project has gone to DML to finish the work before the than was envisaged in the

Opposition piles 'sleaze' pressure on PM By James Blitz, Robert Peston and William Lewis The centrist Liberal Pemocrat party vesterday that her approval of the party has remended the issue' in the Opposition now rejects many of the politics has party has remended the issue' any wrongdoing, is resisting only by his local party and prime minister from 1979-80, made clear prime minister from 1979-80, made clear dies his party has remended the issue'

reality of his party" with its "rema

Democrat party yesterday piled more pressure on the governing Conservatives over the issue of "sleaze" by announcing that they would join Labour, the biggest opposition party, in backing an independent candidate to stand against Mr Neil Hamilton at the national election. Mr Hamilton, the central figure in the "cash-for-questions" furore, faces claims

de to the Labour party by Mr Tony Blair, she wrote in the London Daily Telegraph. its leader, had not dimmed her mistrust for But that did not mean he had changed "the

that he failed to declare Major, the prime minister, at money he received as an MP a London press conference, and independent anti-in the late 1980s from Mr the Liberal Democrats corruption candidate can be

the Harrods store in London.

Hamilton from Mr John

The Tory years: is the end night

In a move triggered by

"It is surely good news that the Leader of commitment to collectivism". Mohamed Fayed, owner of announced they would join Labour in withdrawing their

Hamilton," said Lord Holme, candidate in the district rep- head of the Liberal Demoapparent backing for Mr resented by Mr Hamilton. Hamilton from Mr John "We will be joining the crats' election campaign.

polling on May 1. His refusal was portrayed by Labour as a sign of weakness on the part of the prime minister.

Mr Major said that he would not make a judgment before publication after the election of a report by Sir Gordon Downey, the Commissioner for Standards. One of the main difficulties facing Mr Major is that Mr

sack Mr Hamilton was a sign of weak leadership. Mr Blan retorted: "I would simply put this question: can you in ine a situation where Margaret Thatcher [Mr Major's predecessor as Conservative prime minister] would have said: "There are certain candidates I don't want to stand but there is absolutely nothing I can do about it?

Rift on euro opens in pro-EU party

By George Parker and

Some candidates standing for the centrist Liberal Democrat party are defying their party line by adopting a sceptical tone towards the European single currency. The rift is a muted echo of divisions in the governing Conservative party.

Mr Paddy Ashdown, Lib eral Democrat leader, said yesterday that the party did not intend to weaken its commitment to Britain adopting the euro, despite growing concern among some activists. He has described his party as "a rock" over Europe, immovable in its support for the European Union.

However, a number of candidates are telling voters in their local districts that they are "not persuaded" of the merits of Britain taking part in the single currency. Mr Paul Keetch, the party's candidate in the western England city of Hereford said: "Usually our party leads the debate, but on the question of Europe we are having to catch up with pub-

My personal opinion is that I am not persuaded that at this time a single currency would be a good thing for Britain."

Mr Keetch's views are ical of a number of Liberal Democrat candidates fighting seats where the public mood is wary or even hostile towards Europe.

The problem is particularly acute for candidates in south-west England - the Liberal Democrats' main target region - where the "mad cow" crisis and fishing disputes have hardened attitudes towards Brussels.





1992 John Major (right) wins his first general election, but his close political sity Chris Petten (left) loses his parliamentary seat. Here the prime minister congretulates Mr Patten on his subsequen appointment as Britain's last colonial governor in Hong Kong



peak during President Clinton's visit to the capital, Belfast

1995 Hope of a peaceful settlement in Northern Ireland reaches a

PUBLIC NOTICES

COMPETITION FOR PEAT FIRED POWER STATION

IN THE EAST MIDLANDS OF IRELAND

at has been placed in the Official Journal of the European Com Supply Contract - Negotiated Procedure

Awarding Authority: Minister for Transport, Energy and Commu 25 Clare Street

Dublin, 2 The competition is to be run on behalf of the Minister by Independent Consultants consisting of a um of Stone & Webster Management Consultat Ormbsy Prentice, and NCB Corporate Finance. Nature of the Contract, CPC reference number (services)

Contract to supply electricity to the Electricity Supply Board (ESB) from a peat fired power station to be built, owned and operated by the successful tenderer.

Place of delivery, site or place of performance of service: IRL - East Midlands area of Ireland; site to be For Supplies and Works

Power station to consume approximately 1 million tonnes/ann MW gross electrical output cessful tenderer will enter into a long term contract with the Electricity Supply Board (ESB) for the connection to the grid and the sale of electricity to ESB. The ESB, as contracting authority, has undertaken to enter into a long term supply contract with the successful tenderer as recommended to the Awarding

dependent Consultants. Division into lots: No.

Derogation from Article 18(6): No Time limits for delivery or complete

The plant should be in service by 31.12.2001.

S(a) Deadline for receipt of requests to participate: 5.5.97 8(b) Address: Prequ

Matheson Ormsby Premice

500 Elder Gate 4 Milton Keynes

MK9 IBA

Tel: 0044 1908 602226

Fax: 00353 1 667 1700

Deposits & Guarantees: No bid bond required. Other bonds to be specified in draft contracts forming part

cing & Payment: Project to be financed by the successful bidder. Details of proposed financing to be Legal form in the case of group bidders: Bidders to propose. The successful bidder will be required to form a separate legal entity prior to entering into the contracts.

cants must have the demonstrated espability, experience and financial resources to develop a major build, own and operate thermal power station project. Applicants must have undertaken a relevant project of at least IRP 20 million contract value. Further details will be given in the prequalification documentation.

Applicants must operate an accredited quality assurance system. Providers already selected: The primary peat fuel supplier will be Bord na Mona.

Other information: Deadline for submission of applicants' prequalification package is 5.5.97. The criteria for selection will be the economically most advantageous tender. The project has in principle been approved for EU grant assistance under the terms of Ireland's 1995 - 1999

Notice postmarked: 20,3,97 18. Notice received on: 20,3.97

Crumpled chancellor still in fashion

Respected Kenneth Clarke set for what may be his last Ecofin meeting

porting crumpled suits and pro-European views, Mr Kenneth Clarke can hardly be accused of courting fashion in the Conservative party. On the European stage, however, Britain's chancellor of the exchequer cuts a sharper profile. His influence among fellow EU finance ministers has grown steadily, allowing him to play a vital if unpublicised role in negotiations over economic and monetary

This weekend, Mr Clarke will leave the UK election campaign and join his European colleagues in the Dutch coastal town of Noordwijck to discuss the countdown to Emu. With the Tories trailing badly in the polls in Britain, it could be his last

Ecofin meeting. Mr Ruairi Quinn, finance minister in the Republic of Ireland, says: "Ken Clarke has been a wonderful ambassador for Her Majesty's government, and not just because he speaks from a national perspective. His attitude to the single currency is: we may or may not take part in this project but it is in everybody's interest, particularly the UK's, that it is successful."

Mr Gerrit Zalm, Dutch finance minister and host, says the secret of Mr Clarke's success in Europe is that he speaks in a humornot easy given the political circumstances in Britain."

up to Mr Hans Tietmeyer,

the towering head of the

Bundesbank. But he is also

ous, intelligent, and con- a scheme to put Johnny structive manner: "That's Frenchman in space". Along with Mr Carlo ment and inflexible labour Ciampi of Italy, Mr Clarke is markets. Like prime minisone of the few finance minis- ter John Major he thinks the ters who have dared to stand

touch. Mr Clarke is no Eurofederalist. He once defended his veto of funds for the European Space Agency on the grounds that it was "just He is a biting critic of

Europe's high unemployrest of the EU could learn a lesson from the liberalised British economy. Mr Clarke has, however,

ing principle in nearly four years as chancellor has therefore been to keep open Britain's options toward Emu while exerting maximum influence over the negotiations. A year ago, at a meeting of

finance ministers and central bankers in Verona, Italy, Mr Clarke successfully pleaded with his European colleagues not to make membership of the revamped blessed with the plain man's always acknowledged Exchange Rate Mechanism pact for enforcing budgetary

Britain's dependence on

European markets. His guid-

outside the future euro zone. Mr Quinn quotes him as saying that there were some people in Britain who thought hell had begun when Britain joined the ERM [in September 1990] and that heaven had begun when Britain left it. Mr Clarke is said to have added: "Britain is more likely to ioin the single currency before ERM, so don't make it meeting between the French more difficult for us to do so." Eurosceptics in Mr

Clarke's own party suspect push Britain into Emu go-between. alongside France and Germany. The chancellor insists Europe's "first division", but he has never put the chances of Emu going ahead on time on January 1, 1999 at higher than 60 per cent.

In recent weeks, Mr Clarke figure in response to record unemployment in Germany and a slower-than-expected unlike cabinet colleagues make capital out of Emu's difficulties.

European stereotype of the ence at the EU negotiating British as political saboteurs, Mr Clarke has won the trust and respect of col-Britain's most effective min- states are trapped like marister. If only ... he could be your prime minister," says Mr Clarke, himself a heavyone German diplomat wist-

Mr Clarke's reward came at the EU summit in Dublin last December, towards the climax of bitter Franco-German negotiations over the terms of the stability

compulsory for countries discipline among countries

in the euro zone. The French insisted that politicians should have discretion on when to impose penalties on fiscal delinquents. The Germans insisted on automatic sanctions. Both claimed to have the Maastricht treaty on

their side. On the Friday morning. Chancellor Kohl ordered a and German finance minis ters, with Mr Jean-Claude Juncker, the prime minister that his secret ambition is to of Luxembourg, acting as

Mr Quinn, the chairman, called in the European Comthat Britain must play in mission and Mr Zalm of the incoming EU presidency. Suddenly, Mr Clarke poked his head around the door and asked whether he could join the inner circle.

Mr Philippe Maystadt, the may have have trimmed that long-serving Belgian finance minister, says the positive response confirmed Mr Clarke's standing. "I was recovery in Europe. Yet surprised how involved he was because he could easily such as Mr Malcolm Rifkind, have abstained," says Mr the foreign secretary, he Maystadt, "but instead he resisted the temptation to made a constructive contribution.

The lesson of Dublin was Because he does not fit the that a forceful British prestable can tip the balance. If Britain remains on the sidelines, France and Germany leagues in Brussels. "He is dominate and the smaller bles between the elephants. weight, grasped that fact

Lionel Barber

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Expansion for HSBC offshoot

the Midland Bank offshoot of HSBC, yesterday announced the construction of a new telephone call centre in southern Scotland that is expected to create 5,000 jobs over the next seven years.

The Conservative party, whose few Scottish seats in the House of Commons are under grave threat in the coming general election, has been eager to announce the First Direct investment for weeks.

But despite repeated government leaks, First Direct had insisted that it was still weighing the advantages of Scotland and the Republic of Ireland.

Even yesterday, Mr Michael Forsyth, the chief minister for Scotland, managed to jump the gun by welcoming the new call centre hours before First Direct was ready to confirm its decision. This new site is designed to ensure we have the capacity to expand our business well into the next century," said Mr Keith Whitson, chief executive of

MORTHERN IRELAND

Hospital bed court for shot man

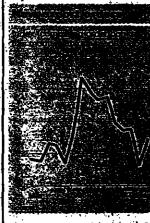
A court convened in Belfast yesterday by the hospital bed of a 19-year-old man shot by undercover British soldiers in the Northern Ireland village of Coalisland last week. Mr Gareth Doris from Coalisland, who is being kept under armed guard, lay on top of his bed wearing pyjamas during the four-minute hearing.

A dressing covered a gunshot wound to his stomach and his cellapsed lung was being inflated by air from a tube at his bedside. He was charged with attempted murder and maliciously causing an explosion outside Coalisland police station last Wednesday. ...

He did not speak and was remanded in custody to appear at Belfast Magistrates Court on April 29. "The defendant has asked me to indicate that he is vig-orously contesting the charges," said a defence lawyer.

MANUFACTURING OUTPUT

Tenth month of growth recorded



UK manufacturers enjoyed growing order books and rising output last month. as the purchasing managers' index recorded its expansion. The index provided mixed signals over the state of the economy, with good news on manufacturing output and increased orders balanced by signs of falling employment caused by concerns over rising costs. Analysis said the index, by the Chartered Institute of Purchasing and Supply, showed evidence that UK exports

were picking up despite the big rise in the pound's exchange rate since August 1996. Although the overall index, which surveys manufacturing sector activity, fell htly to 52.9 last month, below February's level of 53. it remained safely above the key 50 level. An index read-

ing below 50 signals a contraction in activity.

The wildings of including traces with new orders on their blocks continued to rise, and at a higher rate than in

OFFSHORE EQUIPMENT

Workers walk out over pay claim

Work was at a standstill yesterday at Amec Process and Energy's offstione fabrication yard in north-east England because of to a one-day walkout by all 1,750 hourly paid workers in pursuit of a 10 per cent pay claim.

The company, which says it must drive down costs to emain competitive and maintain a healthy order book, has offered a 3 per cent rise with any additional increase depending on productivity deals.

The Confederation of Shipbuilding and Engin Unions has threatened to stage further strikes, with walk-outs every Monday, unless the matter is resolved. Further talks between the CSEU and management will take place this week. The yard has been highly successful at winning orders in the past two years but the company says fierce international competition is driving down

RIVER THAMES

Water levels threaten boat trips

neys on part of the river Thames in London because of unusually low river flows resulting from unisessonally d weather, the Port of London Artificially warned yesterds It said vessels navigating upstream of Kew, in the west

"It's only April and we are afready facing the kind of problems we usually face in August after a very dry sum-

mer, it said.

Some hours ferrying tourists from central London upstream to Hampton Court had cancelled some services because of the risk of grounding. The government's Knylronment Agency, which has already delivined dreught' conditions in south-east England and the east of the country gold westerders that Thereise makes landing the country gold westerders that Thereise makes landing the country gold westerders that Thereise makes landing the country gold westerders that Thereises try, said yesterday that Thames water levels were at 37

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Success in winning contracts replaces acquisitions as principal engine of sales growth

utsourcing boosts leading IT providers

awarded by British industry and the public sector helped the top 10 software and comincrease their UK revenues by 29 per cent to £4.06bn

(S6.45hm) last year. The top 16 also consolidated their grip on the market, taking their share to 38 per cent, according to fig-ures compiled by Mr Richard Holway, an industry analyst and publisher of System House, a UK computing industry newsletter.

reason for the high growth and its work for the Inland rates of the larger compa-Information technology nies," Mr Holway notes outsourcing contracts "The only major acquisition of UK revenues in 1996 was IBM's acquisition of Data Sciences ... the mixlor reason puter services companies to for high growth is undoubtedly the fact that these larger companies have been awarded the lion's share of

> Electronic Data Systems, the US-based group, consoli-dated its position as the largest supplier of computer ser-EDS revenues grew 46 per

new outsourcing contracts."

cent in Britain to \$765m as "In previous years, acquicame into full effect, a con-Microsoft and Oracle - had sitions have been the main tract with Airtours started the lowest growth rates."

Revenue grew significantly. Computer Sciences Corporation, the sixth-largest computer services group in the UK, benefited from hig out-sourcing contracts with British Aerospace, Oxford Consortium and Lucas Industries. The

businesses rapidly.
"Those engaged in outsourcing produced by far the Mr Holway. "Conversely, those with no outsourcing its contract with Rolls-Royce activities - GEC Marconi,

increased their outsourcing

Outside the top 10, the next 10 largest groups' revenues grew 16 per cent near the industry average. Companies are more worried about the risk of computer crime than they are about product liability. UK latest blennial survey of operations of Sema Group corporate risk published and Cap Gemini also yesterday by Aon, one of the world's biggest insurance

> "The dependence of businesses on computer systems has made many more organisations vulnerable to the impact of computer crime," said the survey of 2,000 UK public

Top 10 suppliers

Hotels chief jailed for defrauding shareholders

Legal Correspondent

The former managing director of Resort Hotels was jailed yesterday for eight years for a £20m (\$31.8m) ers. He was also disqualified from acting as a company director for

victed on three counts of making

The court heard that Mr Feld had lied about profit forecasts and about the company's indebtedness in order to ensure success for the rights issue. However, within two years the company's shares were dation with debts of £140m.

Mr Anthony Evans, a lawyer for company to expand rapidly. Three

jury: "Robert Feld was the driving 1991 raised £30m. But in 1992 the its before tax for the year ending force behind the business. He was group needed further share capital April 1992 would not be less than Resort Hotels. Documents were prompting the rights issue at the £8m, that the group's debt was forged by Mr Feld or on his instructions. Shareholders were

induced to part with £20.6m."
Resort Hotels was admitted to the Unlisted Securities Market in market listing. This allowed the

For the April 1992 rights issue to be a success the profits forecast had to be in line with market expectations. City of London institutions had been forecasting a profit of £6m.

Mr Feld told Coopers & Lybrand.

ances of £4m. These were deliberate lies, the court heard.

Shareholders in Resort Hotels lost their whole investment, their to spend at Jarvis Hotels, which had acquired Resort's assets.



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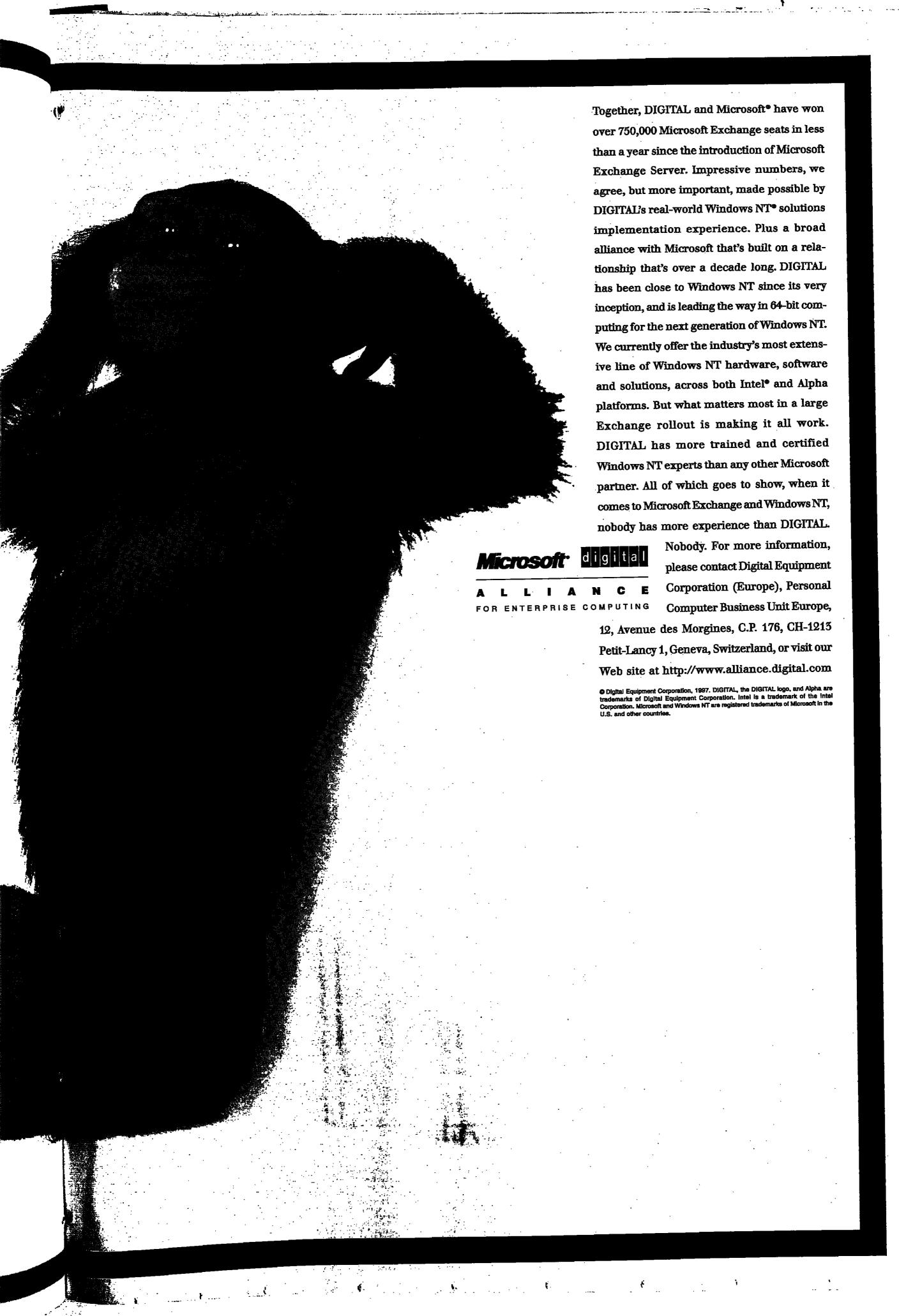
Hilton Hiltoners Worldwide and you can earn Hilton Hiltoners points when you stay at more than 400 Hiltons in 50 countries worldwide, HHonors points can be exchanged for stays at HHonors hotels all over the world. It's simple. Once you're a member you'll receive your personal HHonors account mimber Just give us that account number when you make your reservations and we'll automatically keep track of your points. You can also save points with one of 19 major airlines bicalty programmes at the same time as you save Hilton HHonors points. You can even exchange com HHonors points for airline flights. Drop by any Hilton to pick up an HHonors enrolment form or call voltrate arest Hillohois Customer Service Centre at 0345 466677 in the UK, at 44-990 466677 cress Europe or at 972-788-0878 in the Americas. Or visit us online at http://www.hilton.com.

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die th

Turkey's main utilities companies are moving slowly towards the private sector, but political obstacles remain, writes John Barham

Hunger for capital remains unsatisfied

opened a new international changing. Mr Zekeriya Yilditerminal at Istanbul's Ata- rim, vice-chairman of the turk airport. The Turkey of Doğus Group, a conglomerthe early 1980s was a rejuvenated country, emerging from decades of state planning. A fine new airport terminal would become a gateway for the booming tourist trade and help establish Istanbul as a regional business

According to the original plan, work on a second terminal was to start immediately, backed this time by private capital. But 15 years on, Istanbul airport still has just one international terminal, overwhelmed by a huge increase in traffic.

Governments have come and gone, as have plans for the new terminal. Political intrigue, government indecision, a hostile judiciary and bureaucracy are all to

A similar fate has befallen other brave plans to harness local and international capital to build up Turkey's infrastructure, and so lay the foundations for vigorous sustained growth.

Instead, private capital plays a minor role while the state's investment budget

Blackouts have become part of the Turkish way of life, as have water shortages, crumbling roads and city streets choked with traffic

Yet business is confident

Fifteen years ago Turkey the state's limitations are ate with many infrastructure-related projects, says: "I think that now public opinion has a real desire for stability, for growth and for more employment and to develop our infrastructure."

No country can develop without an adequate infrastructure. Turkey's overburinfrastructure dened depresses its potentially high growth rate.

Deficient transport, water and power increase the cost of doing business in Turkey. Repairing and expanding these networks to cope with a growing and rapidly urbanising population imposes unbearable strains on the near-bankrupt trea-

These themes, and the mechanisms to attract private capital to infrastructure projects, are the subject of a two-day conference sponsored by the Financial Times that begins today in Islan-

Underfunding and disorganisation mean expensive delays and starve essential services such as education and health of resources.

The State Planning Office said last year that delays due to insufficient government funding caused public projects to come in an averige 2.4 times over budget.



instead of the planned three years and came in at over twice the budget.

The government has made a start in surrendering control to the private sector. It is transferring management of the electricity distribution system to private companies and leasing power stations to private operators. It has leased control of seven admittedly minor - ports to the private sector.

TEAS, the state-owned electricity generator, expects half the \$99.1bn investment needed to quintuple generating capacity by 2020 to come from private sources.

But financiers worry about Turkey's hunger for capital. An investment banker says: "There is no shortage of Istanbul's light railway was public finances and stub- the telephone company and that Turkey's awareness of completed in 10 years bornly high inflation have privately financed infra-

led to sharp cuts in Turkey's credit rating, which further reduces the funds that capital markets are willing to commit to the country or

raises costs. Yet pureaucratic conservatism and lack of financial sophistication prevent the state from turning to cheaper capital marketdriven alternatives, such as using the hard currency revenues of ports, airports and the international telephone network to back expansion projects.

Although opinion polls show a majority of Turks support greater private sector involvement in infrastructure, opposition remains ferocious. Mr Münntaz Soysal, a constitutional good projects. But there is a lawyer and left-wing politilimit to the capital available cian, has blocked the privatifor Turkey." Deteriorating sation of Türk Telekom (TT),

by appealing to the courts

and usually winning. Although the constitutional court cleared TT's privatisation in January, it still requires the public sector to retain 61 per cent of the shares. And Mr Soysal is not giving up.

He told a trade union rally in February: "The ports which are Turkey's gates, the factories which are the country's chimneys and the energy plants which are the country's furnaces, are being sold. This is not privatisation. This is downright robbery, theft and plunder."

Even business executives and financiers agree with Mr Soysal that the constitution drafted by a supposedly modernising 1980-82 military government - imposes tight restrictions on private infrastructure investments.

This is because many Turks still fear surrendering state control over strategic Ottoman empire did in its dving days. The constitution requires experts doubt that judges

the Danistav administrative court to approve and moni-Broadly, any private com-

pany taking over activities formerly performed by the are on hold pending a court government is operating a

not back projects subject to mote a \$1bn power project

control of a Turkish court. They want disputes settled by international arbitration.

neered by Turkey in the early 1980s, and seems likely to sink its successor, the Build-Operate (BO) scheme. Under BOT, the government awards a project, such as a dam, to a private company. The company operates it for a long period to recover construction costs

> which it transfers the dam to the state. BOTs are simple in principle, but in practice are fiendishly complex. The courts have cleared only 16 BOTs. of which six are major pro-Under BO regulations

The "concession problem"

has sunk the Build-Operate-

Transfer (BOT) scheme, pio-

and earn a profit, after

announced a year ago the government hoped to sidestep the concession issue by not requiring that a project be transferred to the state. Only non-public service activities would be consid- the first stage of its flagship ered for BO contracts. Legal

will be any kinder to the BO system than its predecessor. Meanwhile, about \$4bn to \$5bn worth of "priority" BO power project investments

decision.

A multinational oil com-However, financiers will pany executive trying to pro-

says: "We need conditions that make the project viable. The constitution must be changed."

Finding a two-thirds

majority in the 550-member parliament will not be easy. The government has a majority of just seven seats. Politicians resist change because the public sector is such an important source of

patronage Mr Alper Kaptanoğlu, group co-ordinator at Alarko, a big construction group, says the decisions politicians take "are related inst to their benefits not the country's". Appointments are made on political affiliation, not merit, he says.

The durability of the coalition government led by Mr Necmettin Erbakan, Turkey's first Islamist prime minister, is open to question. Many political commentators doubt his weak, divided government can take difficult decisions. Few expect overnment to complet privatisation of TT by the end of this year.

Mr Ahmet Cağlar, general manager of Energisa, a power company owned by the Sabanci conglomerate. says a solution "requires very strong leadership. Someone [must] come and say: "This is the problem and this is how we will solve it."

Politics and the legal wars smooth.

over concessions and TT have overshadowed other important issues. The subject of regulation of the telecoms and electricity industries has barely been broached. Upgrading the electricity transport system

is not attracting the attention it needs. The government's pipeline monopoly is scrambling to secure enough additional natural gas imports to meet a steep rise in demand for household and industrial

The model for Turkey should perhaps be Latin American and eastern Europe where in many cases the entire state-owned intrastructure was swiftly moved into the private sector, backed by local and foreign capital markets and monitored by sound regulatory

Yet optimists are right to argue that diminishing public investment or ideological conviction will eventually force the state to surrender its monopolies. Turkey's telephones, electricity industry, gas pipelines, oil refiner ies, roads and water companies – perhaps even Istanbul airport - should eventually become private corporations working in the public inter-

Change, however. unlikely to be quick or

FINANCING • by Metin Munir

oans in limited supply Lenders remain sensitive to political and economic upheavals

Turkey is one of the biggest and most profitable infrastructure markets, but funds are in short supply because of the government's low

credit rating. The country has not recovered from the loss of credibility after its 1994 economic crisis, when it abruptly lost its status as one of the best borrowers among emerging economies. Although the climate has improved slightly, lenders remain sensitive to political and economic upheavals which seem to

have become the norm. The international market for Turkish risk remains limited. Standard and Poor's, the Wall Street rating agency, has lowered Turkey's long-term foreign currency debt rating eight times since 1994, demoting it to

single B last December. Loans beyond one year maturity are rarely available. Spreads paid by Turkish banks change between about 0.85 per cent and 1.70 per cent - slightly higher than last year because of the heightened political uncertainty - depending on the borrower's perceived sound-

been received for six 700 MW power plants and six local electricity distribution companies which require a total investment of about \$4.6bn.

"There is no way they can raise all of this money at McCarthy. once," said a European banker. "Probably half of it could be raised this year." Mr Cafer Said Okray, an Ankara-based consultant, to private investors this

ernment is \$50bn. Mr Okray, who owns UDAS International Consulting and advises, among others, Mitsui of Japan, says his clients are amazed that "there is no scheduling - it looks as if they want financing for all projects. That's not possi-

Mr Ata K Seodlu, a managing director of Bear Steams in New York, considers political volatility to be the main stumbling block facing Turkish borrowing. He says: "There is demand for Turkish risk but political uncertainty is blocking the money which could come - and at its zenith." This is unfortunate.

because the economic need for the projects is very real and the rate of return for the investors is very attractive. active banks in project finance, with ABN Amro Bank, West LB, Chase, and to a more limited extent. Citibank.

Mr John McCarthy, general manager of ING Bank Turkey, says that in the energy sector, where the bulk of the infrastructure projects exist, the rate of return is 27 per cent to 30 per cent, This "is not as good as the Bosphorus Bridge", which is minting money, "but comes close", says Mr McCarthy..

Project finance for infra-Tenders have recently structure development demands much longer tenors of between two and seven vears and is uncommonly scarce. "That kind of money is not readily available and is expensive," says Mr

No deals have yet been concluded in any of the dozens of energy projects which the government has opened says that the total cost of the year. There is no cost-of-borprojects proposed by the gov- rowing benchmark. But one ber. It was for a 672MW and Gama of Turkey.

leading Turkish bank, which hydroelectric power plant is reported to have ear-marked \$400m to finance power distribution franchise power distribution franchise Financing was about purchase, is demanding DM2.3bn, making it the sin-Libor plus 6 per cent plus a 1 per cent commitment fee for five-year tenor, according to

market sources. attract the highest foreign investment are those which allow an efficient distribution of risk between the parties involved and have a short realisation period.

As a rule of thumb, natural gas power plants are the most attractive for foreign financiers, due to the shortthis point uncertainty is at ness of the construction period (two years) and availability of export credit agency (ECA) loans, which enable public and private lenders to split the risk.

Hard fuel fired power plants take longer to build, cost more and are more difficult to finance.

The most difficult to finance are hydroelectric power plants. These have long construction periods (about five years) and a correspondingly long grace period, and because of low import requirements would have correspondingly small ECA support.

There is no ECA support at all in the acquisition of power distribution franchises and transfer of operation of power stations.

Mr Etham Tuncel, director of the project finance department of ABN Amro, says: "Airport and port projects are also of high interest to international financiers due to their foreign currency generation capabilities, predictable cashflow forecasts, availability of ECA financing and foreign developers,"

The first Build Operate Transfer project, which could set a market precedent, was closed last Novem-

and dam in eastern Turkey at Birecik on the Euphrates gle largest finance arranged

for a project in Turkey. It took Chase Investment Bank of London, which was The projects which will financial adviser, 10 years to complete the deal. The financing is made up of DM1.9bn of senior debt, DM300m of equity and DM100m of start-up revenues, according

> The senior debt includes export credit agency tranches guaranteed by Hermes of Germany, Ducroire of Belgium, OKB of Austria and Coface of France, and a commercial tranche of pure Turkish risk.

> The debt was syndicated in a package of ECA to commercial debt on a ratio of 3:1. This ratio was one of the factors which made the deals attractive to commercial banks, by diversifying the

> Turkish risk. The tenor of the ECA tranches is 15% years and eight years for the commercial tranche. The project will take 51/4 years to build. The company will operate the dam for 15 years before

> transferring it to the state. "The risk is spread around pretty well," says a European banker. "The ratio which is purely Turkish risk is not so big, particularly if you spread it among a syndicate of 20 or more banks. And the return on the overall asset, blending in the export credit, is very attractive. The reward is very good and the risk is ameliorated by the export credit

Project sponsors included Philipp Holzmann of Germany, members of the Alcatel group in France and Belgium, Strabag of Austria, Sulzer Hydro of Germany

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Bankers believe the government will eventually solve its financing problems

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Power cuts have become a well-established part of the Turkish way of life.

Nobody is exempt. Officials at Istanbul's city administration struggled to find enough power to make sure the pumps at a water treatment plant worked when Mr Necmettin Erbakan, the prime minister, ceremoniously pressed the starting button recently. Blackouts are likely to

become more frequent, last for longer and affect more and more people. The stateowned power sector cannot invest enough to meet demand growing at 8 per cent to 10 per cent a year. Although civil servants have warned for years that Turkey must invest at \$2bn to \$3bn a year in electricity generation and distribution ministers are only taking action now.

Even if construction began now - progress is blocked in the courts - it would take about two years before the first new power stations began producing electricity. Companies are free to generate power for their own consumption, but are paid low prices if they sell to the

Ankara has announced an investment programme to increase generating capacity fivefold in the next 20 years at a cost of \$99bm - about half of which would be financed by private investors. Last year the government announced new rules allowing companies to build and operate power plants to government specifications, replacing the Build-Operate-Transfer (BOT) system, stuck for a decade in a legal

The government selected five sites across the country for six "priority" power (BO) rules. Fixe power stations will be fuelled by natu-rel gas and one by imported problems: coal, for a total capacity of

ctricity, torocust

5,200MW. If all goes well, they will start producing electricity by 2000.

The government specified not only the location, but the fuel and capacity of each unit. Dozens of international energy companies - mainly from the US - have submitted bids, and the winner will be chosen mainly by the electricity price to be offered to TEDAS, the state-owned distribution company. The lowest bidder will win.

Another seven BO contracts will be awarded at a less hectic pace. About \$20bn-worth of hydroelectric contracts to be built under BOT regulations will also be awarded. Meanwhile, the state will invest about \$61.50n in projects of its own, such as a planned \$1bn nuclear plant. In spite of the cornucopia

of projects and the attractions of Turkey's strong underlying growth rate, local and foreign companies are treading warily.

One reason is a long history of government bungling. Ms Sanda Bahadirli. assistant general co-ordinator at ATA, a big construction group, says "the energy industry is very profitable". She says this is largely \$5bn altogether, to be built anteed profits for recent under the new Build Operate BOT power projects to make

The entire Build-Operate



and household demand. Botas is negotiating with Gazprom of Russia, Turkey's sole natural gas supplier for more imports along a new eastern pipeline and an expanded western link. There are plans for a second liquefied natural gas termi-

nal at Marmara Eriğlisi. nnes and cut losses and theft - which average about 18 The government signed a \$23bn import deal with Iran per cent of electricity prolast year, even though there duction – but executives worry about unclear guideis no pipeline linking the two countries. Neither does lines on pricing, abuse of local monopoly power an. Iran have sufficient gas to supply Turkey. Financing A senior European manager says: "There is a certain given Washington's opposico-ordination now, but priva-

Executives scoff at the notion that TEDAS or TEAS. its sister generating company, have the administrative capacity or political independence to act as impartial regulators.

will be overcapacity in gen-In spite of the confusion, shortages owing to lack of bankers and executives are these problems will eventually be solved.

ral gas - the fuel of choice for the new second They say disorder is proba-bly due to Ankara's inexperinew generation of nower stations - to meet a ence in managing complex sudden surge in industrial privatisations rather than to



ill will. Ms Bahadirli says: "The private sector is going to solve [Turkey's energy problem)." Pessimists doubt whether

the government can institute a workable market for energy, let alone set up a regulatory framework or overcome opposition from courts, parliament and the unions. They would not be surprised to see ministers scouring international financial centres for expensive bank loans to pay for power

Yet it is hard to see how the treasury, its credit standing savaged by Wall Street rating agencies, can borrow

Turkey's great strength is an ability to muddle through, avoiding both optimum solutions and complete disaster. Ankara's handling of the energy crisis is unlikely to be any different.

on power projects in several decisions since 1992 it defined the meaning of concession to bring private power almost entirely

LAW • by Asli Başgöz, Hugh Verrier and Zeynep Çakmak

Courts halt progress

on hold It has been 12 years since Turkey first allowed private investment in the electricity sector under the famous **Build Operate Transfer** (BOT) model. Previously the industry was reserved for

Although BOTs have since been widely implemented around the world - sometimes even called the "Turkish model" -- it was not until last year that the first few international BOT power projects reached a financial conclusion in Turkey.

Legal difficulties

put private

programme

leasing

Emboldened by its success with BOT, and realising the urgency of its electricity needs, the government announced a series of private power tenders last year.

There have been 18 tenders, including more than 150 projects. The govern-ment decided that by leasing about 15 existing plants and granting distribution rights over more than 20 regional distribution companies, it could privatise substantial assets and raise money to The government created a

newer model for power gen-eration, the so-called Build Operate (BO) model, and tendered six of the most important new projects on this basis. But when these BO bids were submitted in February an injunction from the Danistay high administrative court put proceedings

According to press reports the Turkish Chamber of Electrical Engineers filed numerous lawsuits intended to stop all private power projects. It wanted BO projects to be subject to special scrutiny under the Turkish constitution as "concessions".

The Danistay apparently agreed. It granted the engineers an injunction and is reviewing the merits of the claim. Earlier it invalidated

within its dominion.

Unfortunately, not one private power project with international investment has heen successfully developed in Turkey as a concession. It appears that the Danistay has been seeking to revise the contract terms of proiects submitted to it for approval in such a way that foreign participation or fin-

ancing may be difficult. In response to the Danistay's decisions the government enacted a series of ultimately flawed legislative measures to define the the courts have invalidated them on constitutional grounds, reasoning that a concession must be defined by the courts.

Other lawsuits abound. The treasury's authority to issue guarantees to support BOT projects, which provides their financing backbone, has been challenged at the Constitutional Court. The Danistay has not apparently ruled on a challenge against the first planned power station lease. Lawsuits against successful BOT projects have also been reported and more lawsuits

can be expected. At the root of the controversy is the simple political question: should the state be solely responsible for providing power? Those who seem to favour a state monopoly have chosen the legal battlefield, considerably slowing the introduction of private

Similar legal battles have slowed, but not stopped, the privatisation of Türk Telekom (TT), the fixed-line monopoly operator.

Attempts to privatise TT have been slowed by repeated legal challenges to the special privatisation enabling legislation promulgated in 1994, then amended by further acts in 1995 and

a private distribution con-vatisation, the government the Ankara Bar.

tract on these grounds, and split the PTT postal, telephone and telegraph service into two units in 1995. It created the General Directorate of Posts for postal services and a new company, Thric Telekom, to handle telecom munications services.

Twenty per cent of the proceeds is earmarked for investment in telecommuni cations services and a further 20 per cent in postal ser-

The balance belongs to the Treasury and, according to the law, should be used primarily to pay down debt. The government's Privati

sation Administration cardural work, but it is for the cabinet to approve the method and terms of sale. The law retains the gov

ernment's monopoly in core telecommunications services and it is not clear when, and introduced. The company has signed revenue-sharing agreements - to be conlicences - with two GSM cel lular phone operators. Ti itself offers many other value-added services such as paging, data transmission cable TV, and private virtual networks.

The privatisation law per mits it to offer these and other services directly they all form part of its franchise - or for the Ministry of Transport, which oversees the telecommunications industry, to license them to licences are to be granted to promote competition in the

Many important decisions remain to be taken, such as the development of a regulatory framework. The final shape of the regulatory framework and other decisions, such as tariff policy, may determine the success of privatisation and the future of Turkey's telecommunications sector.

Asli Başgöz and Hugh Verrier are partners of White & In preparation for its pri- nep Cakmak is a member of

TELECOMMUNICATIONS • by John Barham Phone wait may end soon

Officials say they hope to sell enough shares to raise at least

This may be the year that Turkey starts privatising its telecoms monopoly, Türk Telekom (TT).

\$3.3bn this year

It is more than two years since Mrs Tansu Ciller, then prime minister, first tried to stalwarts, led by Mr Mumtaz Soysal, constitutional lawyer, nationalist and leftwing politician, repeatedly blocked the deal in the courts. Then, in January, to the surprise of many and the joy of Turkey's financial markets, the constitutional court approved the compa-

ny's privatisation. In three previous rulings since 1993 constitutional court judges rejected government plans to sell TT. They required the government to retain 51 per cent of TT's shares and transfer a further 10 per cent to the postal service, from which the company was split in 1993. A further 5 per cent had to be set aside for employees and retail investors, leaving only 34 per cent available for big

strategic investors. Still, the ruling is an advance. It implies a judicial green light for other infrastructure-related privatisations, which have been stalled for a decade. It should also ensure that TT will be

better managed. Mr Cengiz Bulut, the company's general manager, says: "It will not be as bad as it is now. I am sure we \$2.7bn to \$4bn in revenues. will not be tied as much to Although it invests these

Approval for the company's investment budget is an intricate bureaucratic exercise. Rate increases to keep up with inflation must be approved by the prime min-

The government has awarded a consortium of investment banks, lawyers and accountants led by Gold-man Sachs the mandate for TT's high speed privatisation. Mr Bulut says: "The evaluation process will take five to six months and after that we will know how much to expect from the sale of

Officials at the privatisation board say they hope to sell enough shares to raise at least \$3.8bn this year. This is an ambitions target that few financiers expect the government to meet. Still, optimists say full privatisation of TT has become unstoppable. It is only a matter of time before opposition to TT's full privatisation crumbles in the courts, the bureaucracy and

Given that, for the time being, TT will remain in the public sector, it is hard to see how great an impact partial privatisation will have on management and the company's public sector ethos. There are no plans for an independent regulator. Bizarrely, the transport ministry will take responsibility for regulation while the treasury will represent the state

as majority shareholder. .. TT is consistently profitable. Last year it reported profits of \$638.2m on revenues of \$2.5bm and expects \$1bm profits this year from

vice, demand for telephone connections far outstrips supply. At peak times placing international calls, dialling between Istanbul and Ankara, or even within Istanbul itself, can be difficult. Mr Bulut says TI installs

Although the government

is transferring the entire dis-

tribution network to private

operators by splitting the

country into 25 sectors, it

has not explained how the

new system will be regu-

lated. Operators in each zone

will want to increase reve-

tisation without regulation

will be complete anarchy."

For instance, the govern-

ment is not focusing on

transmission. He says: "I can

imagine in a few years there

eration and there will still be

Companies are wondering

transport rights.

about 1.2m to 1.5m lines a year, but waiting lists remain stubbornly long. Every year about 600,000 to im people apply for a new line but are turned down. Demand for lines will probably remain strong for several years. By the end of this year, Turkey will have

about 17m lines for a population of about 62m, equivalent to 27 lines per 100 people. This is about half the average in developed countries.

Mr Bulus expects Turkey to reach saturation by 2000. reach saturation by 2000. But it will surely take longer to raise revenues per line, indicating that there

will be plenty of room for growth for many years. Mr Oğuz Tezmen, under-secretary at the transport ministry and a TT board member, says income per line in Turkey is just 10 per cent of revenues at Deutsche Telekom, Germany's telephone operator. Unsatisfied demand is one

reason behind the rapid growth in mobile telecommunications, Tunkey may be a poor country, but faxi drivers and plumbers have mobile phones. There are two competing GSM cellular phone net-

works which operate moder licence from TT on a reve-Turkcell, the hig operator, had 554,000 clients last year and expects to sign up between 400,000 and profits.

opened its doors only three years ago. Now the company private investors and the rest by Telecom Finland and Ericsson, the mobile handset work in Azerbaijan and pushing for more deals in the Caucasus and central

TI's fixed line network is also growing quickly - the number of lines increased by 50 per cent between 1992 and to be state of the art.

Turkey boasts a high digitisation rate, with three quarters of its exchanges

Even if the impact of semiprivatisation on TT's management is unclear, it may changes in its finances. At the moment its investment budget is restricted by gov ernment controls. .

According to a well-established ritual, government chunk of TI's profits and the company's bosses claw back most of the money during the year with revised Mr Bulut admits the com-

pany's financial systems are antiquated. Consultants from the Goldman Sachs-led consortium have started building new controls to make sure TT is ready for the markets later this year. its profits could even be ring-franced from the govern-

As a more market-oriented company it may start tapmarkets to raise finance to

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BUSINESS AND THE ENVIRONMENT

t has produced rioting in Germany, multi-billion dol-lar lawsuits in the US, and represents a poisoned chalice for whoever wins the next British general election in

May.
The search for underground sites to dispose of highly radioactive waste which is piling up at atomic power plants comes to a head in the US next week, less than a month after the collapse of British attempts to begin work on a site near Sellafield.

US senators are expected to approve a proposal to force the Clinton administration to build a temporary storage site above ground at Yucca Mountain in Nevada – before a permanent dump underground there is

The government, backed by Congress's watchdog on nuclear waste, is opposed to building a temporary site until research can demonstrate that Yucca Mountain would be a safe permanent

Assuming it is passed by the House of Representatives, the industry-backed Senate plan could be stopped only by a presidential veto.

The Department of Energy. which has collected \$12bn from a levy on electricity consumers to build a permanent repository, is under a legal obligation to begin taking nuclear waste off the industry's hands from next Janu-

The problem is that an underground repository would not be ready at Yucca Mountain before 2010 at the earliest. Successive administrations have dragged their feet in meeting an unrealistic 1998 deadline that was set under political pressure 15 years

Senator Frank Murkowski, chairman of the Senate's energy committee, claims that failure to adopt his temporary storage plan will cost the US taxpayer billions of dollars in legal damages payable to the nuclear industry. "If the administration has a better idea that's fine, but for the moment this is the only game in town." he says.

William Barnard, executive director of the Nuclear Waste Technical Review Board, a monitoring body set up by Congress, notes, however, that the interim storage proposed by Murkowski would not in fact be temporary. Storing casks of waste on land, it would form an essential part of a permanent repository to handle and repackage spent fuel waste as it arrives for deep disposal. It would also require the construction of a special road or railway enabling delivery of the waste in special casks which have yet to

Leyla Boulton on the search for underground sites to dispose of nuclear waste

US aims to bury the past

In an attempt to placate its critics, the Department of Energy promises that an initial "viability" study on Yucca Mountain will be completed by the end of next year, suggesting that some kind of decision might be possi-

But Barnard's review board, the closest thing to an honest broker in this dispute, points out that a final decision will only really be possible in 2000 or 2001, once an east-west exploratory tunnel across the mountain has been completed.

The board adds, however, that it sees no problem in keeping the waste at 70 plants in 35 states until the turn of the century. Contrary to the warnings of Murkowski and industry lobbyists who warn of nuclear power plants being forced to shut pre-maturely, it says there is "no compelling technical or safety reason to move fuel to a centralised site . . . for the next few

national interim storage facility should be available at the turn of the century to stop waste being left behind at nuclear reactors as

they are decommissioned. There is really only a difference of a couple of years between our positions," says Barnard, concludes that the Senate's insistence on the 1998 deadline is more a matter of symbolism. The government has an obligation, so what is it going to do

The Department of Energy is looking for ways of discharging its obligation, upheld by a court ruling last year, other than providing temporary storage in does not mean we should throw Nevada from next January. But a our hands up and do something senior official says that "the precipitous." issue of what [legal] remedy it



But it is adamant that a liability it might face is all premature".

Kathleen McGinty, environment adviser to president Bill Clinton, is less diplomatic in rejecting the demands of the industry and Congress for interim storage at Yucca Mountain until a permanent repository is approved there.

"If Congress wanted to be really helpful, it could give us the tools to tackle this problem," she says. "It would not say 'we'll move this stuff come hell or high water'. The imperative has to be to answer critical public health and safety questions. The fact that this is a challenging process

But the administration's pro-

industry, which last year successfully sued the government to confirm that it must take the waste after 1998, from launching a secand lawspit with dozens of state

Apart from maintaining pres-

There is going to be a lot of long-term uncertainty no matter where you build it'

sure on the government to solve the problem, this aims to divert any further funds levied from electricity consumers into an escrow account until the Department of Energy starts work on a

Gas and Electric, one of the companies involved in both rounds of legal action, is worried that the money accumulated - at a rate of one tenth of a penny per kilowatt being used to help plug the US budget deficit. Prospects for a solution, how-

Christian Poindexter, chief

executive officer of Baltimore

ever, look rosier than in the UK. which as of March 17 does not even have a credible site to argue over. But the fiasco suffered by Nirex UK, the statecontrolled company set up to build a repository, also highlights the delicate balancing act required to secure a site.

The UK plan was compromised by more than a simple display of Nimbyism (Not in My BackYard)

Council, the local authority that withheld permission for an underground laboratory to explore the possibility of a reposi-

Citing proof highlighted by environmentalists that the site's hydrogeology was unsuitable, the council also expressed fears that once built, the laboratory would constitute a Trojan horse for a

More damagingly, an internal memorandum leaked earlier this year revealed doubts within Nirex about its ability to build a sufficiently robust preliminary safety case for a dump to justify investment in a laboratory. Concerns raised by the memo,

including the perception that Nirex had been economical with the truth in trying to push through a laboratory, was enough for the government to take the politically popular step of siding with the council.

Barnard appreciates some of the scientific uncertainties surrounding Nirex's quest to find a solution. "Rocks were not made to be licensed," he says. "There is going to be a lot of long-term uncertainty about any repository no matter where you build it."

But he also recognises the danger, identified by Cumbria, of what he calls "institutional momentum" - putting so much money and effort into researching a site that it becomes increasingly difficult to walk away from it even if it proves unsuitable. Having spent \$4bn exploring

Yucca Mountain, the US government is unlikely to fall further into that particular tran by proceeding with a temporary storage site demanded by Congress.

Murkowski seems determined to generate precisely such institutional momentum when he mixes talk of a temporary site at

in favour of building a permanent repository there.

While he feels "sorry for the Nevadans", Murkowski argues that Yucca would make an ideal dump site because it has already suffered radioactive contamination from its location on the edge of the US nuclear weapons test

For the nuclear industry, the success or failure of attempts to solve the waste problem is likely to play a part in determining how far into the next century it con-

tinues to operate in the US. Baltimore Gas and Electric is not alone in running out of stor- : age space for nuclear waste - it has room at its one nuclear plantuntil 2006. But Poindexter says it will need the guarantee of a permanent disposal site before it applies to renew the plant's operating licence for another 20

Most industry experts agree that there is even less likelihood, of new reactors appearing in the US in the absence of a repository.

ow long a reactor can. run to recover its costs, and how waste storage and disposal costs might have to increase are in turn bound up with a debate gathering pace in the US over how to deregulate the electricity industry.

Utilities, which depend on nuclear power for 22 per cent of electricity supplies, are arguing with the lederal and local governments over how far they should be allowed to fix prices in a competitive environment in order to recover so-called "stranded costs". These refer mainly to investments in the nuclear industry that might not have been made in a deregulated

market. Although most experts expect the prohibitive economics of building new plants to ensure the US nuclear industry's gradual demise, some environmentalists are intent on exploiting the difficulties with waste to seal the industry's fate by opposing an

underground repository. "Nobody in their right mind would think of adding to the problem if there is nowhere to put the waste," says Mary Olson of the Nuclear Information and Resource Service, one of the US's anti-nuclear environmentalist

Whatever the future holds for the nuclear industry, which is enjoying some growth in Asia and still hopes for a renaissance in the west, a powerful ethical argument can be made in favour of this generation tackling the nuclear waste problem before it gets handed down to yet LB another.

Locals dig in their heels over disposal

isposal of waste is the nuclear industry's second-biggest challenge after the collapse in demand for

new plants. scientists is that the safest way to dispose of spent fuel rods and other detritus that will remain

dangerously radioactive for

thousands of years is "deep

geological disposal" - burying it in a hole in the ground. But politicians face an apparently endless headache in trying to put that theory into practice as local communities. backed by environmentalist sure groups, object to having

the waste nearby. When scientists say this is the right way to do it, they

always assume you will be able to find a suitable site . . . which may prove more difficult, admits William Barnard, executive director of the Nuclear Waste Technical Review Board, a group of scientists set up by the US Congress to monitor the

government's progress in setting The US Department of Knergy

points to its plan to open by the end of next year a repository in New Mexico for plutonium-contaminated waste

from nuclear weapons production as evidence that deep disposal is both politically and technically feasible.

But some observers question how realistic that deadline is in the light of disagreements with

the Environmental Protection Agency on regulating the site. They also expect new legal moves by New Mexico's attorney-general to try to block the opening of the Waste Isolation Pilot Plant, set up to bury the wastes in salt formations at Carlsbad

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f the advertisements

in French television

listings magazines are

anything to go by (and

there are more than 10

uninspiring varieties on

which to draw), the country's typical TV viewer is

obsessed with slimming, psy-

hancement and ugly factory-

And judging by the recent

output of the six national

stations (not to mention doz-

ens of cable and satellite

equivalents), all but that last

category are already amply

catered for with either their

own programmes or frequent

references to them in the

multiple variety shows

incomprehensible discussion

on the great Gallic thinker

certain Sylviane Agacinski,

whose recent media fame no

doubt has nothing to do with

the fact that she is the sec-

which clog the channels.

made Belgian furniture.

 m_{11}

...

77 m 1928

ing significant Maria

 $r_{n,y}$

....

French Television / Andrew Jack

Highbrow to barking mad

Socialist party, Lionel Jos- involves having to do so in chic mediums, breast-en- pin.

But France 3's early Saturtive and certainly more widely watched. It has the rather cheeky title Y'a pire ailleurs (there is worse elsewhere), although that is probably a safe bet, given the number of new and dreadful concections coming on screen nearly every week.

in view of previous efforts, This being France, of I must confess to not even course, both Arte's Philosotaking the risk of inflicting phies and France 3's Grain on myself the latest offering from Nagui on TF1, called de philo are available for the discriminating viewer each You are not dreaming - you week. The latter featured an probably wish you were. For there are more than enough existing distasteful competi-Michel Foucault, with contritors to provide anyone with butions from among others a their weekly fill.

After all, would even the surprise and pleasure of ter were the rather unpro-being reunited with long-lost found phrases "how relations or friends on *Perdu* horrible" and "how could surprise and pleasure of ond wife of the leader of the de vue be worth it when it anyone be like that?" Indeed.

screen, and then collapsing resident "astro-psycholoday evening variety show is into tears for the pleasure of gist", who was able to reveal probably more representa- a voyeuristic audience? to us the profoundly original And could TF1's Sans

aucun doute really muster a two-hour show dedicated to the subject of jealousy? Apparently so, with one whether they themselves woman happy to relate in need to change their attides. who believed she no longer loved him - had threatened her with a rifle before shooting himself through the

Her testimony was supposed to be tastefully leav-ened by inviting "comedienne" Elsa Zylberstein along too, to provide commentary. Since the stories related were hardly laughing matters, all the star could mus-

More expert commentary thought (for which her clients apparently pay topsufficient testimonials to fill franc) that those who believe their partners are jealous should start by considering 3

ar more seriously, M6's Capital last Sunday featured the equally obsarre concept of a dog psycho-analyst, available for a modest FFr700 an hour to tell stressed camine owners to lock their animals up in isolation more frequently, so that they learn the importance of independence. He was interviewed as

the French are even more vast quantities of free sam-

eccentric and obsessed with claiming ownership of some 16m cats and dogs. Shame there was no explanation of why the hairy creatures are ·so numerous.

Still, we learnt that kennels in the shape of Louis XIV four-poster beds are on sale alongside electric toothbrushes specially designed for the mouths of our furry friends, and that animal food (typically with just 4 per cent meat or fish content) often sells in supermarkets at a higher price than the human equivalent because of the marketing costs.

We were even treated to a shocking revelation about those authoritative tweedjacketed dog breeders who (in France too) dominate TV advertising for the cans of part of a fascinating docu-mentary which showed that seems they are often given

ples from the company being all but an unrecognisable front of a huge television came from the programme's pets than the English, with screen, and then collapsing resident "astro-psycholo- 29 per cent of the population ted to feeding rival brands to endorsed. Some even admit- blur.

> Meanwhile, the suitablynamed Emmanuel Chain, the compere who attempts to knit the show's mini documentaries together with studio discussions, had calmed down after his salivating performance while interviewing President Chirac in a TV debate last month. His lengthy barked questions had barely left the head of state with a chance to get a

time.

But just in case Capital's more house-trained studio discussion was not enough to keep us distracted, the camera operator frequently filmed the presenter from a grammes. dog-like position at his heels, or bounced away as if chas-

Someone who turned on their animals from time to the programme halfway through to be greeted by the sight of copulating dogs

might have thought that M6 had got confused when it turned the clocks forward earlier in the day. Its soft porn broadcasts do not normally start until around midnight. It was a sight that might even have provided a first

test for the new gimmick dreamed up by the CSA, the country's audio-visual regulator. It has had the idea of punishing broadcasters who have transcressed its rules by temporarily forcing them to transmit a black screen in place of their pro-But the most controversial

recent emission in the last that the interviewees were not even broadcast, but sent TV listings magazines.

on a video to doctors. The scandal was that it used a journalist, in a format very similar to a French TV news broadcast, to flog a new med-

That was indeed particularly serious in a country which obviously takes its citizens for such fools that it considers it necessary to broadcast an image and the word Publicité (advertising) for several seconds ahead of

each commercial break. The single advantage the system offers is advance warning that what follows may be up to 20 solid minutes of often banal ads and tedious plugs for forthcoming programmes before the next scheduled item

And things are set to get worse. A devious French ad agency has just unveiled a new "anti-zapping" strategy. buving simultaneous air time for a single client on all the principal channels, so that even if you flick stations, you cannot escape the

At least by rapidly flicking ing after an imaginary bone few days was beyond even the page you can fast-for-to get a long-shot so distant the CSA's grasp, since it was ward past an advert in the ward past an advert in the

Opera

Strength without romance in Salome

he Royal Opera knows when it is on to a good thing. The performances of Salome that it gave two years ago were so widely praised for their high standards of music and drama, and so intricately put together, that the company has brought the opera back with virtually the same cast for this year's revival.

It is surprising that the main players have been kept in place for so long. Luc Bondy's production started life at the Salzburg Festival in 1992 and bas already travelled widely: Brussels, Florence and Chicago have seen it, performances at the Theatre du Châtelet in Paris are to come, and a BBC2 television transmission of this London revival is due. But without. Catherine Malfitano in the title-role and Christoph von Dohnányi as conductor, it is difficult to imagine the production retaining its keen;

The strength of this Salome is that everybody has worked towards a single goal. Between them, Bondy, Dohnányi and Malfitano have stripped the opera of its late-romantic beauty. I doubt that either Wilde, with his bejewelled prose, or Strauss, with his elitteringly luxuriant orchestration, had in mind such a grim realistic drama, but its power is undeniable.

There was one moment Salome was lingeringly unwrapping John the Baptist's head from its blood-soaked sheet when the opera seemed sickening for the first time ever in my experience. Malfitano's Salome looks so much the petulant teenager that everything she does seems for real. She was also in good voice, though her soprano has little fat in the tone to spare, so the singing is always hard and

forcefully projected. The main newcomer to the production was Robert Hale's strong-voiced Jokanaan. Kenneth Riegel repeated his unhinged



Petulant and in good voice is Catherine Malfitano in the title role

Herod and Anja Silja her domineering Herodias, a blonde society hostess well past her sell-by date, absolutely fabulous in every sense of the term. Ruby Philogene was the new, sultry-voiced Page and Robert Gambill a slightly strained Narraboth Among the rest Peter Bronder's First Jew, Andrew

Greenan's First Nazarene and Graeme Broadbent and Michael Diviett as the soldiers come

across strongly. My only serious complaint about the performance is that the orchestra is too loud: hardly a word in the first half-hour could be heard. Like the production, "Dohnanyi's cool headed

conducting shines a merciless spotlight on Strauss's score. revealing countless details with rigorous accuracy. I doubt the Royal Opera orchestra has ever played better and that alone is sufficient reason to see this high-quality evening.

Richard Fairman

Theatre / Sarah Hemming

Back to Fo's roots

and actor, whose combination of comic observation, skilled performance and radical politics have made him a household name in his native Italy. So it an English version of his Mistern Buffo, the solo show that has become his trademark, Oxford Stage Company uses a cast of six to represent his expansive and brilliant talent.

In a sense this staging of The Comic Mysteries (a co-production with Greenwich Theatre) reclaims the roots of Fo's plays since it places it in the hands of a group of players who slip in and out of roles, play instruments and sing, as their medieval counterparts must have done. A filleted version of Fo's text, translated by Ed Emery, the play is mischievons and driven by lacer- pete over who can get the nails powerful than any weeping or ating wit. The production is into Christ's hands with the walling. The production is strong strong and the performances smallest number of blows in a on many counts but what it lacks engaging and dignified. But what scene that brings home with is the ability to make you weep you don't get and what you miss is the touch of comic genius that of death on the cross. Elsewhere, been the most powerful weapon mance weeping with laughter.

The show is an immensely skil-

n Britain we simply do not builds on the role of the jongleur, time; the point made is that the have an equivalent of Dario or strolling performer, to both sort of violence against which Fo, the charismatic writer entertain and inflame. Several Jesus preached is still with us. well-known episodes from the Bible are presented from an oblique angle. The effect is to fire a broadside at the pomp and circumstance that have grown up seems appropriate that in staging around the Church, while at the same time placing centre-stage the kind of people that Jesus sought to help. While never conscripting Jesus to his own political views, he cleverly reminds us of the subversive and compassionate nature of His teaching.

hus the most acidly satiri-

cal scene in the show in which Pope Boniface VIII struggles to clothe himself in a liam Lawrence is funny as the little humility when he encounters Christ, is followed a little later by a harrowing and sober version of the crucifixion. Here Clark plays Mary at the cross we watch as two crucifiers com- with a dry-eyed grief that is more shocking simplicity the brutality with laughter which has always presented from the perspective of a woman driven so mad with ful reworking of the Mysteries grief at the loss of her baby that (Tel: 0181 858 7755), then on tour that draws on popular and comic she wanders around cradling a to Salisbury, Crewe, Hudders-

Where Fo would perform all this on his own, slipping from

character to character and employing a made-up language, here the play is opened out and scattered around the six actors. Soldered together with the vigor ous medieval songs that Mia Soteriou has collected, it makes a rousing piece of theatre. John Retallack's production uses Brechtian subtitles, stark lighting and striking blocking to increase the impact, and the cast work fluently and persuasively David Brett is strong as the whey-faced little Jongleur, Wilposturing Pope, mining wittily with his hands to suggest a variety of absurd headgear, and April

Greenwich Theatre to April 19 tradition to create a vehicle for lamb. She could be a victim of field, Cheltenham, Bury St powerful contemporary satire. Fo atrocity from anywhere, or any Edmunds and Oxford.

Theatre / Ian Shuttleworth

Honestly lacking purpose

which dogs much of fringe theatre is that the phrase "trained in Paris with Jacques Lecoq" still functions as a guarantee of quality. In recent years, Lecoo alumni a show which does not include a graduate.

Their ranks include all four performers and the director of Hoipolloi's latest production Honestly, at the Young Vic Theatre, which makes for 70 agreeable if hardly earth-shattering minutes. It suffers from the problem common to many devised shows having determined a subject and even settled upon a plot of sorts,

ne of the fallacies it remains devoid of purpose. Honestly is set in a bewildering exhibits the usual symptoms of depersonalisation and lack of community, but seems threateningly labyrinthine in itself. As have grown so ubiquitous that it new tenant Paul (Shôn Dale is almost more surprising to find Jones) searches for his flat he encounters a couple playing sex games, a moral-crusading nutter and a lonely nerd, as well as a go-getting salesman, the menacing landlord and the grotesque

> concierge. Although billed as "a maniacal comedy" and peppered with comic business the general mood of the piece moves from a banal but worrying voyeurism reminiscent of Roman Polanski's Repul-

> > works by Brahms;

Tel: 30-31-867860-6

conductor Georges Pretre perform

■ THESSALONIKI

Thessaloniki Cultural Capital '97

Albin Brunovski: exhibition of

work by the Brataslavian-born

sion into unmistakable Kafka territory; there are even overtones apartment block which not only of H.P. Lovecraft, as the very layout of the building seems to alter so as to prevent Paul from ever

finding Apartment 178. On a set consisting of a couple of rolls of carpet and three columns which function as doors. walls or stairwells according to need, Dale Jones wanders around in increasing frenzy while Stefanle Müller, Gaetan Schmid and Jason Turner play their ever more cracked multiple roles around him. The emotional and intellectual observations on such a lifestyle which underlie the work are little more than truisms, and the resultant show is adequate if thin.

INTERNATIO

AMSTERDAM

CONCERT Concertgebouw Tel: 31-20-6718345 Nederlands Kamerkoor: with conductor Daniel Reuss and planists Wyneke Jordans and Leo van Doeselaar perform works by Brahms; Apr 4

BERLIN DANCE

Deutsche Oper Berlin Tei: 49-30-3438401 Ballett der Deutschen Oper Berlin: perform Oleg Vinogradov's (after Petipa) "Paquita" to music by Minkus, Kenneth MacMillan's "Concerto" to music by Shostakovich and John Cranko's "Onegin" to music by Tchalkovsky and Stolze; Apr 5

COLOGNE

CONCERT Kölner Philharmonie Tel: 49-221-2040820 Ursula Fledler and Charles

Spencer: the soprano and planist perform works by Schubert

■ COPENHAGEN CONCERT

Det Kongelige Teater - The Royal Theatre Tel: 45-33 69 69

Royal Danish Chamber 3 Orchestra: with conductor Josef Suk and violinist Lars Bjornkiir perform works by Suk, Mozart : 132 and Dvorak, Apr 6

LONDON

AUCTION Bonhams Tel: 44-171-3933900 Modern British Pictures: sale including a number of works by Sir Altred Munnings, including "Stable Boy on a Horse at Newmarket" and "The Artist's Wife on a Grey". There are also works by Phillip Wilson Steer, Laurence Stephen Lowry and William Hoggart, Apr 3

CONCERT Royal Festival Half Tel: 44-171-9604242 BBC Philharmonic Orchestra: with conductor Yan Pascal Tortelier and the London Symphony Chorus perform works by Stravinsky; Apr 6
Olga Dudnik; the planist performs works by Beethoven, Haydin, Liszt, Schabin and

EXHIBITION Royal Academy of Arts Tel: 44-171-4397438 Braque: The Late Works: the

Rachmaninov, Apr 6

first British exhibition to focus on the last 20 years of the career of Georges Braque, one of the founders of Cubism. On display are some 50 paintings covering all of the great cycles of work from his later years, including the "Interiors", "Billiard Tables", "Studios" and "Birds"; to Apr 6

■ MADRID MUSIC PERFORMANCE

Fundación Juan March Tel: 34-1-4354240 Miguel Angel Colmenero: formance by the trumpet performance by the trumpet player accompanied by plants Sabel de Fatima Hemandez. The programme includes works by Cherubini, Chopin, Beethoven, Mozart and Saint-Saëns, Apr 5

MILAN

THEATRE Teatro Lirico Tel: 39-2-723 331 La Villeggiatura: by Goldoni.
 Directed by Massimo Castri, performed by the Teatro Stabile dell'Umbria and Teatro Metastasio di Prato. The cast includes Sonia Bergamasco, Milutin Dapcevic, Pietro Faiella and others; from Apr 210:Apr 10

MUNICH

OPERA CUVIII Civillies-Theater - Altes Residenzibester Tel: 49-89-296836 Persifal: by Wagner.
 Conducted by Peter Schneider. : and performed by the Bayerische

Staatsoper. Soloists include Marityn Schmiege, Caroline Maria Petrig and Jennifer Trost; Apr 4

■ NEW YORK CONCERT

Camegle Half Tel: 1-212-247-7800 Murray Perahia: the planist performs works by Chopin and Handel: Apr 5

EXHIBITION The Metropolitan Museum of Art Tel: 1-212-879-5500 Some Women: an exhibition of

bronze and marble, by artists including Rodin, Lehmbruck, Brancusi and Giacometti; to Apr 6 PARIS CONCERT

portrait busts of eight women, in

Théâtre des Champs-Elysées Tel: 33-1 49 52 50 50 Frank Peter Zimmermann and Louis Lorde: the violinist and planist perform works by Brahms, Webern and Schumann, Apr 6

OPÉRA

L'Opéra de Paris Bastille Tel: 38-1 44 73 13 99 Garmen: by Bizet. Conducted by Gary Bertini, performed by the Orcigestre et Choeurs de l'Opéra National de Paris. Soléists include Franck Ferrari, LeRby Villanueva, Sergel Larin, Gino Quilico and Franck Lieggérinel; Apr 4

ROME

Palazzo delle Esposizioni Tel: 39-8-4742216 Gran Tour; for many centuries Italy has enjoyed a reputation as home of some of the finest art and architecture. In the 18th century especially it became the destination for artists

and writers, royalty and nobility, all of whom travelled there to absorb the atmosphere of antique ruins and seek inspiration from Renais paintings. This exhibition examines their journey and show paintings, sculpture, drawings and prints from a range of international collections. The survey includes works by Batoni, Canaletto, Piranesi, Reynolds and Zoffany; to Apr 7

ROTTERDAM

CONCERT De Doelen Tel: 31-10-2171700 Rotterdams Philhermonisch Orkest: with conductor Kees Bakels perform works by Puccini and Leoncavallo; from Apr 5 to May 6

■ STOCKHOLM CONCERT Stockholms Konserthuset Tel:

46-8-7860200 Vladimir Ashkenezy: the pianist performs works by Mozart and Chopin; Apr 6

STRASBOURG MUSIC PERFORMANCE Palais de la Musique et des Congrès Tel: 33-388 37 67 67

Wiener Symphoniker: with

engraver, consisting of pieces from all stages of his career. The exhibition, the artist's first retrospective in Greece, takes

EXHIBITION

EXHIBITION

Greece Cultural Centre: from Apr 4 to Apr 26 **■ WASHINGTON**

place at the National Bank of

National Gallery of Art Tel: 1-202-7374215 Splendors of Imperial China: Treasures from the National Palace Museum, Taipel: display featuring some 100 paintings and calligraphic works, as well as more than 200 jades, bronzes, ceramics and other decorative arts. There are many Tang,

Sung and Yuan masterpleces and examples of imperial ceramic were from the Sung through to the Ch'ing periods; to

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CNBC:

08,30 Souawk Box

10.00 European Money Wheel

Financial Times Business Tonight



Ian Davidson

which would allow a van-

guard of more enthusiastic

member states to integrate

more closely and more rap-

idly than the others. This

would be an important

departure, since the Union

has been based on the idea

that all member states must

adopt all policies together. If

adopted, it would in theory

open the door to a multi-tier

But it was the somewhat

unexpected Franco-German

plan, for a progressive

merger of the Western Euro-

pean Union and the EU.

which last week attracted

most attention. Just what

such a merger would really

achieve is a bit vague, but

there is certainly powerful

political symbolism in the

is through the Western

effectively delegated policy

country can be a full mem-

it is also a member of Nato.

European Union, which has

At present, the only Euro-

l Inion

A budding agenda

Three contentious issues are emerging for the summer summit in Amsterdam on the future of the EU

The UK government has long downplayed the significance of the intergovernmental conference (IGC) for reforming the European Union. It opposes all the reforms proposed by Germany and others for strengthening political integration. And it would like to put it about that the entire exercise can be written off

Superficially, events have seemed to confirm this judgment. The conference started in March 1996 and is not due to wind up until the Amsterdam summit in June vet nothing much appears to have happened.

The negotiations scarcely ever get into the headlines. When they do, it seems to exhibit mainly those defects that give the EU such a bad name: incomprehensible complexity and interminable delay. The casual observer might think the intergovernmental conference is turning out to be like the negotiations for the Maastricht treaty, only more boring.

But the draft treaty. tabled last week by the Dutch government, which holds the EU presidency, suggests such a casual observer would be mistaken. The negotiations appear to be shaping up in quite a significant way. with the prospect of a substantial agenda for the Amsterdam summit around three main issues.

First, the Dutch draft puts forward proposals for strengthening the development of a common foreign and security policy. In parallel, France and Germany have tabled a plan for moving by stages towards a European defence policy, by gradually merging the Western European Union defence grouping into the EU.

Second, there are proposals for moving towards more effective co-operation on justice and home affairs, especially by developing common European policies

A complete merger of the on free movement of people. immigration and asylum. Third, and politically the most significant, the Dutch European defence policy independent of Nato and the draft contains a scheme for what is called "flexibility".

In practice, I doubt whether Amsterdam will see any rapid progress towards common foreign or defence policies. A common foreign policy cannot be imposed through majority voting. And any commitment to a merger of the WEU with the EU will no doubt be blocked by the four neutral member states (Austria, Finland, Ireland and Sweden), never mind the British.

By contrast, there seems much more political momentum behind the proposals for closer integration on justice and home affairs. At present these issues are handled on an intergovernmental basis - that is to say, individual member tes can veto any change. This means co-operation moves at a spail's pace

pean defence co-ordination Spectacularly, the Dutch are proposing that co-operation on questions of asylum, to Nato. Thus no European immigration and freedom of travel between member ber of the WEU unless states should become part of the core EU agenda - with a



WEU and the EU would be mon or harmonised policies the first step towards a within a fixed time limit. Such policies would thus also be subject to the arbitration of the European Court of Justice.

These proposals have the makings of a serious showdown between the UK and the rest. A large majority of member states is in favour of closer European integration in immigration, asylum and freedom of movement but this is absolutely opposed by both the present British government and the opposition Labour party.

There seems likely to be a similar line-up over the third set of proposals in the Dutch draft treaty, for so-called "flexibility". The idea of a multi-tier Europe is open to serious object tions. It looks like a recip for disintegration, not inte gration; and it will be difficult for the EU's institutions to operate if groups of states are committed to different sets of policies.

But some version of "flexibility" has become essen tial, if only as a way of circumventing persistent UK opposition to all forms of closer European integration. And the idea has gained momentum as a way of han dling the prospective difficulties of admitting to membership the much less advanced countries of east

At the Amsterdam summit, therefore, it seems increasingly likely that one of the big questions for the EU will be whether to move towards a system with the potential for multi-tier integration and, if so, on what terms and conditions. The UK's Conservative government is claiming the right to block any resort to flexibility to avoid being sidelined against its will. But if Labour wins the general election on May 1, it might find flexibility attractive. precisely because it would allow the UK to adopt its own pace in Europe.



Government exacerbates dividend problem

From Mr John H. Muloeu. Sir, Tony Jackson revisits ("The dividends dilemma", March 29/30) the vexed question of short-termism in the UK economy. All sides deny responsibility for it, some even that it exists. But Jackson's comparison of the UK with the US, where investment as a proportion of earnings in the non-financial sector is higher and yields are lower, is convincing evidence. As he says, "high payouts and low investment are a symptom of malaise" and

long run". When he offers as explanation that British managers

"are unsustainable in the

don't invest because they "have run out of ideas" and think their shareholders can find better investment opportunities elsewhere, is he really saying they are tent? In a time of rapid scientific and technological developments, the potential for improved products and the creation of new markets has never been

The overseas-based companies that have taken control of large slices of UK manufacturing industry - and are now among the nation's leading employers – have not run out of ideas, nor are they mable to make the

investment needed for their

But they all have govern-ments (and this includes the US), ready in various ways to bear a greater share of the risks inherent in the costly. long-term investment in innovation and development between concept and successful product – bridging the "development gap".

Uniquely among leading countries, Britain has a government which has cut support for research and development dramatically in real terms over the past decade, and offers no significant fiscal incentives for increased investment. The Department of Trade and Industry has almost ended support for civil industrial R&D, now

£700m per annum less. Jackson says, "The dividend issue will not go away". Unfortunately there is every likelihood it will: when there are no Britishrun companies left to pay high dividends and most of the revenue from their profits accrues to other, less short-termist, governments.

John H. Mulvey, executive secretar The Save British Science PO Box 241 Oxford OX1 3QQ, UK

Too much of a rush for gold

From Mr Charles Kernot. Sir. Sitting in Jakarta I am shocked and amazed by the howls of anguish that appear to be coming from other mining analysts about recent developments at Busang. To put it into perspective, drilling at Papua New Guinea's Lihir project took much longer

than two years to delineate its gold resources. Indeed, while discovered in 1984, the mine is only now on the

verge of production. And although gold was first found in South Africa's Witwatersrand in the 1880s, it was not until the much later discovery of the West Wits line that the full notential of the region

As a consequence I am addened that so many of my colleagues appear to have been taken in by these events - especially because I was aware of others'

validity of Bre-X's drilling methodology. Perhaps this is a further example of why Canada,

despite claims to the

comments questioning the

contrary, is unlikely ever to

replace London as the centre

of mining finance expertise.

Charles Kernot, mining analyst, Banque Paribas (Loudon). c/o Holiday Inn.

Jakarta, Indonesia

Tigers squabble in an unseemly catfight

became clear.

From Ms Teresa Wyszomierski.

Sir. In the interest of anding the squabbling between Malaysia and Singapore over Lee Kuan Yew's disparaging remarks about Johor ("Malaysia links with Singapore at 30-year low", March 27), I gest that prime ministers Mahathir and Goh ask themselves the following ques-

tion: How much longer do they realistically expect the US to remain the sole guarantor of Asia's balance of

Surely Malaysia and Singapore have a much greater stake in Asian stability than the US. Yet they make no credible effort to formulate co-ordinated regional response to possible Chinese

instead to stage the international equivalent of a cat-

Is this any way for Tigers to behave? Teresa Wyszomierski.

61-37 56th Avenue, New York 11378,

in Swedish cities.

Impatient to criticise

From Mr Richard Linning. Sir, Could you please explain how the FT was able to criticise an event ("Oscar's rewards", March 25) in your editorial which it was unable to report until the following day ("Oscars crown recovery of film

sector"). True, one could anticipate "film stars who gushed", a "ceremony [which] encapsulates Hollywood's relationship with celebrity", but it was possible that, for once, the spotlight might just shine on those who have not already joined the club. In fact, the success of The English Patient indicates that on Monday night it did.

senior consultant, partner. PRP.

5 Avenue Roger Vandendriessche. B-1150 Brussels, Belgium

standard

Shell should back cleaner fuels move By the same

From Mr David Crosby. Sir, In his letter criticising the FT for siting a Canadian national park in the wrong province (March 29/30), Mr Robert Hage describes his other side of "Le Manche" when actually he means "La Manche".

If he is so exacting on your knowledge of Canadian geography I see no reason why the same standard should not be applied to his.

Global Climate Change

Stop, look and listen before we leap

International efforts to deal with climate change are speeding toward actions that could wreak havoc on nations even as science and economics continue to signal caution.

While governments, industry and citizens are concerned about the buildup of greenhousegas emissions, primarily carbon dioxide (CO₂), there is no consensus on what constitutes "dangerous levels" of emissions, nor is there agreement on when, where and how best to reduce their impact. Yet, an action plan with binding commitments on industrialised nations could take shape by year's end.

We are concerned that policy makers have not focused fully on the consequences of controlling CO2 emissions. Economic assessments of several emission-control plans have concluded that most abatement programs will impose painful burdens not just on the developed economies, but also on many developing countries that are under no obligation to act. These economic penalties are especially harsh if the proposed action plan sets short timetables and unrealistic targets.

A study just issued by Charles River Associates (CRA), a Washington, D.C., economic consulting group, provides additional weight to the impact of emission controls in an age of global markets. The report shows how ill-timed or ill-considered abatement measures could stunt world economic growth, unsettle global trading patterns and set the stage for a new era of trade protectionism and conflict.

CRA analyzed two abatement scenariosone a more modest stabilisation proposal, the other a more aggressive reduction plan. Both fall within the boundaries of proposals already

advanced by several nations. The authors utilised a carbon-rationing plan to achieve required re-

energy sources and revamp their industrial infrastructures, and shrinking foreign trade as the cost of carbon abatement makes their goods more expensive in world markets. For countries whose industries and transportation are energyintensive (Canada and the U.S. and to a lesser extent Italy and Japan, for example) the cost will be acute-with potential drops in the gross do-

As industrialised nations curb their demand for fossil fuels, energy prices will decline, hurting energy exporters in the Middle East, Africa and Latin America. The decline in demand, in effect, punishes energy exporters almost as much as industrialised nations. And finally, many developing nations would be harmed by carbon abatement plans. With developing countries now exporting 60 to 75 per cent of their products to the industrialised world, those markets will shrivel as economic growth stalls in the developed world and the cost of their imports rises. In most cases. these negative effects will more than offset the benefits of lower-priced energy.

In the face of compelling conclusions like these, we urge international negotiators not to make 1997 a year of hasty decisions. The entire world's prosperity depends on a course of wise. sustainable action.

ductions in CO2 emissions. In practice, rationing would trigger a series of ripple effects, beginning with fuel switching in the industrialised countries and sharply rising energy prices for industry and The Impact on the industrial world, says CRA, is likely to be twofold: lower fossil fuel imports as nations switch to more expensive

mestic product of up to 4.5 per cent.

do the environment, the gen and sulphur oxides as human health as well as

From Mr Mans Lönnroth Sir, The article by Stefan Wagstyl and Robert Corzine about Shell and the environment was most welcome

("Rights and wrongs", March 18), even if, as Tony Juniper subsequently noted (Letters. March 22/23), the jury is still

Let me mention an issue which would help the jury: Shell's future position on the auto-oil directive of the European Union. A recent study commissioned from Arthur D. Little by the Finnish and Swedish governments shows that a 30 and 50 ppm sulphur level in gasoposed seven times as large levels, would lead to much reduced emissions of nitrowell as hydrocarbons and Cleaner fuels also open up

line and diesel fuel respec-

tively, rather than the pro-

the possibility of introducing an up to 35 per cent more fuel efficient gasoline All in all, cleaner fuels would also be of help in

addressing the extremely bad air quality in many European cities (see the Financial Times article, "Paris turos towards nanny for fresh air", March 24), as itself a not insignificant serthe European oil industry and join the European parliament in a forceful backing of the Finnish and Swedish proposal. As they say, the proof of the pudding is in the

bas been well demonstrated

Shell, as well as the other

leading oil companies, would

Mäns Lönnroth, state secretary, Ministry of Environment, S-103 33 Stockholm.

David Crosby, 9 Stephen Lane Dedham, MA 02026,

This is the age of the tilting train, says Charles Batchelor

peak to train enthu-slasts about the journeys they would most like to make. and chances are they will mention one of the high-speed trains running on specially-built lines such as France's trains à grand vitesse (TGV).

Futuristic trains streaking at 300kph down arrowstraight level tracks have given a new glamour to rail travel and brought cities in Europe closer together.

But a new generation of tilting trains in Europe and Japan has focused attention on a form of high-speed travel that may be much more suitable for countries where cities are closer and very high running speeds can be achieved only for

short distances. Tilting trains running on conventional track offer the prospect of much shorter journey times on large stretches of the world's railwavs - without the cost and difficulties of constructing new lines or realigning old

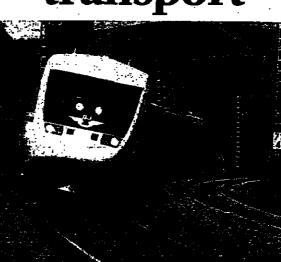
"We used to regard tilting technology as rather exotic in the 1980s," says Mr Wolfram Martinsen, president of Siemens Transportation Systems. "Now we regard it as the most important upcoming market segment." Adtranz, the Swedish-Swiss-German rolling stock manufacturer, calculates that Swedish Railways has spent just \$500,000 upgrading a kilometre of track for tilting services. Each kilometre of new dedicated high-speed line cost SNCF, the French

The introduction of tilting trains in southern Sweden has cut the journey time between Stockholm and Gothenburg by nearly one hour since 1990 to just under three hours - helping arrest the decline of Swedish Raff-

state-owned railway com-

pany, \$10m.





Rolling along: the Adtranz X2000 tilting high-speed train

"Tilt has been both a technical and a commercial success," says Mr Thomas Holmquist, export manager Europe for Adtranz, which makes the trains.

Tilting trains offer higher ds and shorter journey times because the carriages lean into curves. A degree of tilt is normally built into rail track at curves, but additional tilt is needed if the passengers are not to be pushed to the outside of the curve by the centrifugal force. But too much tilt can induce sickness since the passengers' eyes register the curve but their stomachs are fooled into thinking they are

sitting upright. This was the mistake British Rail, the recently privatised UK train operator, made with its Advanced PasIts first attempt to master tilting technology kept breaking down and passengers complained of feeling queasy. The train was with-

drawn after just three days of scheduled services. Designers now aim to compensate for only 60 per cent to 70 per cent of the sideways pressure to avoid nausea. And once passengers are comfortable, tilting allows trains to increase speeds by up to 40 per cent. Because the train is not constantly braking and accelerating, there are savings on energy consumption and brake com-

The Italians have been the most successful in building tilting trains and Fiat Ferroviaria, the rail equipment arm of the carmaker, is now making the third generation senger Train 16 years ago. of its Pendolino. Italian Rail-

ways use them extensively while Fiat has also sold its trains or supplied Pendolino technology to Spain, Germany, Switzerland, Finland

and the Czech Republic. The Fiat system is employed in 1,140 carriages or nearly 60 per cent of the 1.940 tilting carriages in use or on order in Europe and North America, followed by Adtranz with more than 530 and Bombardier with 260, according to Railway

Gazette magazine. Many rolling stock manu facturers and rail managed now believe tilt will make R much greater contribution to improving rail travel over

the next two decad Amtrak, the publicly, funded US passenger rail operator also plans to start tilting train services on the north-east corridor between Boston and Washington, cutting journey times from eight to five hours. And even the French are considering tiliting trains as the financial returns from new high speed

lines have fallen. In the UK, the privatisation of BR has raised the likelihood of a second attempt to run tilting trains, on the west coast mainline which links London, Manchester, Birmingham and

Mr Richard Branson's Virgin Rail, which has a 15-year franchise to operate trains on the line, plans to replace most of the line's existing trains with a leased fleet of 40 tilting trains. At 200kph, these would cut more than an hour off the 5½ hour journey between London and

According to Mr Chris Adams, engineering development manager at Angel Train Contracts, the rolling stock leasing company. "Tilt can now be regarded as a mature technology whose risks are reasonably well understood and acceptably

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FINANCIAL TIMES

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Wednesday April 2 1997

Open skies in Europe

From yesterday any European airline will be allowed to operate anywhere in the European not a question of physical Union. This step completes the capacity, but rather of political liberalisation of the internal aviation market that began a decade ago. The question, however, is what it will mean in practice. Will passengers come to regard it as a red letter day or an April fool's joke?

The short answer is that a swift revolution in European aviation is unlikely. Yet even if the pace of change is glacial, powerful competitive forces are now at work. Over time they are likely to transform the industry's traditional landscape.

Such a transformation is needed: fares remain far higher than in the US, while some of Europe's principal state-owned airlines still need to feed from the subsidy trough. This combination of high fares with persistent losses is a startling indicator of inefficiency.

The desired competition will by efficient new suppliers is a supported dumping. plausible threat. In principle, it operations within hitherto protected domestic markets, as British Airways has done in Ryanair and Easyjet have both penetrated existing markets and generated new ones, by offering services at lower fares.

Heathrow and Frankfurt, this is obstruction. Instead of being encouraged to expand their business, airports are too frequently subjected to national policies aimed at supporting domestic flag carriers.

Reallocation of slots with substantial scarcity value is less important than allowing more operations where such scarcity does not exist. The reason is simple: where slots are scarce, the market clearing price for travel is likely to be high, whoever runs the flights or however many airlines control the slots.

The other big obstacle to new entry is predatory behaviour by existing airlines. If, in particular, a potential entrant knows that a subsidised competitor will always have enough money to continue operating on its tra-ditional scale, it may not bother become effective only if entry so important to eliminate state-

This liberalisation is defialready is. Established airlines nitely not an April fool's joke. It can, for example, set up should lead, over time, to more competition, lower prices and a restructured industry. But the Commission must not rest on Germany and France. In addities laurels if the potential of the tion, low-cost airlines such as policy is to be realised in the near future. It must now concentrate its efforts both on increasing the supply of slots to efficient new competitors and Yet the new entrants confront on reducing the availability of two serious obstacles. The first subsidies to inefficient old ones.

Banks hang on

reason this week to be thankful. Their year-end balance sheets were struck on March 31 before Wall Street's slide had the chance to turn into something big. Despite heavy selling of bank shares on the last day of the year, the Nikkei 225 index closed just above 18,000. At that level the value of the equity holdings of some weaker banks will probably be insufficient to prevent breaches of the Bank for International Settlements'

could have been worse. Since the beginning of the the banks to muddle through has been eroding. Bank shares have had to cope with worries about the potentially destabilising impact of Tokyo's 'Big Bang'. This has been exacerbated since last week by the problems of Nippon Credit Bank, which has seen the yield on its debentures rise sharply in recent months relative to those of the other long term credit hanks. The fear, as with the earlier restructuring of the iusen housing loan corporations, is that sound banks will be weakened through enforced partici-

pation in a rescue. For want of a substantial and politically unpopular injection of public funds, the stage is set for a slower-motion restructuring of the financial industry than the label 'Big Bang'

Japan's troubled banks have implies. That could be unhealthy. By contrast, a shock induced by a panicky reaction to the bank reporting season in May would be more risky - but it would arguably be beneficial if it broke the political impasse

over the use of public funds. There is clearly excess capacity in Japan's financial services industry. Reducing that capacity will impose burdens on larger firms, as increased competition drives smaller firms into their arms. Yet the profitcapital adequacy regime. Yet it ability of the financial system should not be underestimated. Even after the bull market in borrowing costs ensure that the yield curve remains steep, leaving banks with profitable trading opportunities. Margins on lending are unprecedentedly high. And unlike British brokers before 1986, Japanese securities firms are well capitalised

Insurers, admittedly, have serious solvency problems. Yet here, liberalisation will help, if it entails more professional (and increasingly foreign) fund man agement, together with increased investment in higher

yielding overseas assets. The whole system needs more competition. But as it restruc tures, it is vital to guard against moral hazard. That means that bank depositors must be taught to recognise that when govern ment guarantees run out in 2001, their money is at risk.

Zwischenland

between Germany and Russia have had a hard time of it. That is why Poles, Czechs and Hungarians are now so determined to enter Nato, hoping to escape that tragic destiny once and for all. But while the west thus expands, Russia has shrunk, leaving a belt of newly independent states between its main land mass and the putative new eastern frontier of Nato.

Were there to be a new cold war, or worse, a hot one, the fate of this new glacis could be as unpleasant as that of the old. Both Nato and Russia have a responsibility, and an interest. in seeing that no such nightmare comes about. Nato accepts that, at least in the near future. this cannot be done by expanding further to take in the states in question. But Russia, bumiliated by the "loss" of Poland, has mumbled that it might react by binding its nearer neighbours in tighter embrace.

Today's planned "union treaty" with Belarus is probably meant to look, to Russian nationalists, like the first step in implementing those threats. Luckily reality is different, Russia and Belarus already formed "community of sovereign republics" a year ago, and it is not certain today's "union" will feel any different in practice. "Some people are asking," says Mr Valery Serov, the Russian deputy prime minister who co-

For 200 years or more, the lands authored the draft. "In what country will we wake up on April 3?". The answer is: In the very same country you went to bed. There will be a union of two states rather than a single

> The draft treaty is especially coy about plans for a single currency, with good reason. As Mr Serov's remarks suggest, Russian opinion is by no means uniformly enthusiastic about bailing out a hopelessly mismanaged Belarus economy, nor about taking responsibility for the repressive and eccentric behaviour of Mr Anatoly Lukashenko, the Belarus president. For his part, Mr Lukashenko (rather like the late Archbishop Makarios Cyprus) will hardly push his enthusiasm for enosis to the point where the mother country push him aside.

> More significant than today's the visit of General George Joulwan. Nato's supreme allied comtal, and the fact that it has not stopped President Boris Yeltsin conciliatory tone towards Ukraine. Russia may be able to dictate terms to Belarus, but it is in no state to force its will on Ukraine or indeed on the Baltics, and Mr Yeltsin knows it. In today's zwischenland, friendship has to be earned, not imposed.

Exchange of hostilities

New German telecoms groups are preparing to take on Deutsche Telekom after liberalisation next year, says **Ralph Atkins**

he nerve centre of telecommunications company, resembles the control room of a space agency, with more than 100 computer terminals housed in a sleek office building in Cologne The banks of screens, which show o.tel.o's national telecoms grid, flash whenever there is a fault. But for much of the time, seats at the terminals are empty.

The company - owned by Veba industrial conglomerates - is investing DM7bn (\$4.2bn) in preparation for an event that has yet to happen: the liberalisation of Germany's telecoms market on January 1 1998.

On that date, Deutsche Telekom - Europe's largest telecoms group - will lose its monopoly of public voice-telephony services. The market will be thrown open to competition offering the opportunity to win a share of one of the world's largest and fastestgrowing markets, expected to be worth DM100bn by 2000.

"Our goals are clear: o.tel.o is to provide the full spectrum of communications services and occupy one of the foremost ranks in competition," says Mr Ulrich

Hartmann, chairman of Veba. Other large German groups racing to build rival general telecoms businesses include Viag. the Munich-based industrial conglomerate, which has teamed up with the UK's British Telecommunications. Mannesmann, the industrial conglomerate that once focused on traditional steel tubes products, has joined forces with Deutsche Bahn to build an alternative telecoms network along the railway operator's tracks. Meanwhile, other companies are building telecommunications businesses in some of Germany's largest cities.

But these contenders face a fierce battle if they are to dislodge Deutsche Telekom which was partially-privatised last year. Mr Ron Sommer, chief executive since March 1995, has sought to jolt the group out of its state monopoly mentality and to inject a customer-orientated service cul-

In the past six years, Deutsche Telekom has spent DM150bn on investment, including digitalising its networks and building a modern, fibre-optic system across eastern Germany. "If you add up what our competitors plan to spend in the next five years, it is still not as much as we spend in a single year." Mr Sommer says. A high priority is to improve reliability and its notoriously-bad

example, for the lucrative highspending private customers. Prices have been cut by an average of 10 per cent since 1990. Despite Germany's strict labour laws, staff numbers have been cut from 230,000 in 1995 to 201,000 at the end of last year with a goal of 170,000 by 2000. "The fight is

on for every single client," says

Mr Sommer

The new competitors such as o.teLo argue Deutsche Telekom is competing with unfair advantages. None will be able to offer from January 1 a universal network on their own. All depend on Deutsche Telekom providing access to its networks - particularly for the so-called "last mile" from trunk networks into customers' homes or businesses.

New numbers in German telecoms

Deutsche Telekom DM63.1bn Turnover 1996:

DM20bn (Incl

Deutsche Bahn 50.2% Mannesmann Arcor Tumover 1997: More than DM1bn DM3bn-DM4bn (in the next 5 years) Market share: Not forecast

RWE o.tel.o DM7bn-DM9bn in 2005 DM7bn "in coming years" Investment: Market share: 12%-17% by 2005 "within 5 years"

10% Viag Interkom

> Turnover: Market share:

DM6bn-DM7bn up to 2007 7%-8% in 2007 (fixed lines plus mobile

40%

DM10bn-DM11bn in 2007

At o.tel.o's Cologne control tions ministry has suggested, for of the new telecom operators room, there is frustration when example, that licences for operatlights indicating faults flash only ing a federal-wide service might once. This shows breaks in concost as much as DM40m - hefty nections on Deutsche Telekom's by international standards and a sections of the network which deterrent to smaller, niche comcan be rectified only by the fornanies. To build a federal-wide network would cost another mer state-owned company's engi-

By law, Deutsche Telekom must negotiate "interconnection" agreements, setting terms for its service has been introduced, for But with less than nine months to liberalisation, talks have have yet to be appointed. erupted into angry public spats over Deutsche Telekom's negotia-

> Mannesmann and Viag have threatened to file a complaint to the European Commission against the former state-owned monopoly for stifling competition. And Mr Hartmann of Veba accuses it of "still fully capitalising on its monopolistic position". But the new operators fear there is little prospect of the government in Bonn offering early help in opening the market.

"On January 1 1998 nothing the Viag/BT joint venture. scaled down considerably. If each

DM40m. From January 1 a new, independent regulatory authority is supposed to be in place to ensure dent and two vice-presidents

Mr Hartmann of Veba says it is "unacceptable" that decisions have not been taken on management, organisation and staffing which will have a significant impact on the new regulator's effectiveness in policing the sector. Mr Peter Mihatsch, Mannesmann board member with responsibility for telecommunications, says: "We may have some time early next year in which there is no effective regulation."

will happen - there will be no dramatic change," says Mr Lutz Mever-Scheel, managing director and spokesman of Viag Interkom, Ambitions may have to be





were to reach its target for market share, Deutsche Telekom would have to lose around 40 per cent of the market within a decade. In the UK, the former state-woned monopoly BT still has more than 89 per cent of the market after more than a decade of competition.

ances bidding for a share of the German market. Cable & Wireless, the UK's telecoms group has pulled out of the o.tel.o alliance, shving away from the huge investment needed. Thyssen, another German conglomerate. has scaled back its telecommunications plans, after a strategic rethink. "In the long run, there is room for a maximum of two universal service providers as competitors to Deutsche Telekom because no-one can provide the same range of services, no-one can have that breadth of management capacity," says Mr Meyer-Scheel of Viag Interkom.

Nevertheless, the erosion of Deutsche Telekom's grip on the market is inevitable. Power utilities such as Veba and RWE are financially strong and can afford

to support operations which are not expected to break even until well into the next century. They also have experience running large infrastructure networks and customer billing systems.

And within a few years, their

dependence on Deutsche Telekom will have been reduced. The rival groups will have completed a federal-wide network for bulk telecommunications traffic and have made greater inroads into the "last mile". Viag Interkom, for example, is planning to use radio telephony to link consumers to its fixed land-based net

They will also receive help from the growing international pressures for liberalisation. European Union directives requiring to competition in data and voice services from January 1 next year were a catalyst for change in Germany. If the Bonn government or the new regulatory authority are ineffective as regulators. Brussels is likely to intervene to promote competition.

consumers are hecoming increasingly accustomed to competition. In the German mobile telecommunications market - liberalised since 1990 rivalry is already fierce between the four competing networks. only two of which are owned by Deutsche Telekom.

The new entrants have used mobile telephony to gain experience of the telecoms market the largest mobile operator, D2, is majority-owned by Mannesmann. A fifth mobile network soon to be launched will be part of the Vlag

Interkom operation. And unlike the US and UK, Germany is going straight for full across-the-board liberalisation. In the UK, the government only allowed one competitor - Mercury Communications - to tackle BT for the first seven years after privatisation in 1984. In the US, competition has only recently been allowed on the "last mile to consumers.

Meanwhile, Germany's telecom operators are benefiting from the experience of companies in markets which are ahead of it in liberalisation. The new competitors can not only import technical and marketing know-how, they can also learn from mistakes made elsewhere.

Unlike Mercury in the UK, the main rivals to Deutsche Telekom Such considerations have are looking to offer a range of sparked a ceaseless round of services to business and private mies of scale and also prevent over dependence on short-term niche opportunities. The size of the new rivals

operations and the scale of investment still to come suggests none is going to give up without a fight. Since it is one of the biggest in the world, a chunk of the German telecoms market is an alluring goal for new competitors such as o.teLo. As Mr James Riddiough, Euro-

pean telecommunications analyst at Deutsche Morgan Grenfell in Frankfurt, says: "They will come in. They could potentially make good money, providing their plans are sensible. But it will take time."

Additional reporting by Wolfgang

BSERVE

So full of beans

Funny how organisations get tired of the way they look. though corporate cosmetic surgery normally costs a lot more than the nip-and-tuck being considered by the International Cocoa Organisation to coincide with its

25th anniversary in 1998. The ICCO has had enough of its worthy - but admittedly dull - logo, a kind of flattened and segmented planet earth stamped with a cocoa-bean pod and the acronym ICCO. The organisation has been going since 1973 with the same symbol, but now it wants to update its public face to something a little more in tune with the times.

Mind you, the ICCO is not spending a hill of hears on its new look; instead it's inviting anyone (apart from ICCO employees and their families) to submit designs. The winner will be chosen by the organisation's executive committee. "Surprise us with the winning entry and we will surprise you with a great

orize!" it declares. Observer has a sweet tooth so naturally rang up and asked what the surprise prize might be perhaps? "Now there's a thought," says an ICCO spokesman, adding "we can't

just yet but we hope that won't deter you from entering." They'll be doodling from Paris to Peru.

give out any specific information

Worse in their eyes, the govern-

ment still retains a majority

stake in Deutsche Telekom so its

interests are at best compro-

The post and telecommunica-

Wipe out

ting strategy.

Financier Sir James Goldsmith is trying hard to politics; his Referendum party has stuffed millions of copies of its 12-minute video through the nation's letterboxes. So plenty of excitement at the party's headouarters after news that the most important video you'll ever watch" is in especially

strong demand in universities. The word has gone out from the academic community that copies of the tape are urgently required to help the educational process on its way. The trouble is, the tapes aren't being used as a ground-breaking example of a new approach to "single-issue" olitics; their length makes them ideal for wining before re-use in seminar presentations.

Spokesmen

French insurance group GAN has suffered more than most from downturns in the property cycle and the underwriting cycle; now it seems to have had enough of the real thing. The state-owned company is risking the wrath of France's

bicycle-loving public by withdrawing its sponsorship GAN has sponsored its own team in the world's toughest

cycle race since 1993; team members were often seen sporting the tour leader's famous yellow jersey - which conveniently matches one of the insurer's corporate colours. But now the company has decided that the expense is, well, a touch extravagant at a time when the French government is being asked to fork out FFr20bn to help cover huge losses. Still, this has not prevented

another troubled state-owned financial institution from continuing to lend support to the event: Credit Lyonnais is still peddling its wares on the tour.

Hell's bells London town crier Peter

The felony took place on Monday within earshot of the Tower of London: Moore put down his 17lb copper and brass bell for a few seconds and when he turned round it was gone. In the old days felons were hung, drawn and quartered for less. Now 53, Moore has been

making a living shouting his head off for more than 20 years. He first did the job for the old Greater London Council, After Margaret Thatcher's

least-favourite local authority was abolished, he went freelance and now waves his clapper around on behalf of a number of

local authorities.
On Monday, he was working outside the Tower Hill Pageant a busy tourist attraction, when someone made off with his precious prop. Unless it is: handed back it will take six weeks to replace. But there's no question of Moore being silenced by the beastly crime; he's back on duty with a temporary bell suburban Croydon.

Busy line

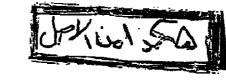
■ Woe betide the caller when two terribly fashionable New York phenomena – voicemail and psycho-analysis - collide: "Hello, welcome to the

Psychiatric Hot-line. If you are: obsessive-compulsive, press 1. repeatedly. If you are co-dependent, please ask someone else to press 2. If you have multiple personalities, press 3,4,5 and 6. If you are paranoid-dehisional, we know who you are and what you want; just stay on the line so we can trace the call. If you are schizophrenic, listen carefully and a little voice will tell you which number to press. If you are manic depressive, it doesn't matter which number you press – no-one will answer.*

100 years ago An Undestrable Devel Although the prospec the Egyptian Delta Mi Ballway Lamind bear

hanvay Limited bears, first class names, and up to propose a scheme that both promising it itself, worthy of support on the grounds, there is support on the grounds, there is support on the about it to which we man hake exception. We obser amongst the Directories and of Licent Colonies. Marry at 15 Constitute of the constitute of the Marryati (Secretary, 1) Marryati (Secretary, Sin North Western Raffrier, Company): While wells nothing to say against. Colonel Marryati who hadesevedly high reputation seems a regretiable high vation to see the salants official of one salants official of one salants a seat on the Hoant official international districtions another. The fact this is

50 years ago Retail Prices in France The goal set by M. Bhun when he inaugingted it deflationary experiment 10 per cent price return has Scarcely been additi Hamadier, has personal policy by a great an decrees. If the experience with consuccess, if has reverse years a price trends.



FINANCIAL TIMES

Wednesday April 2 1997



design manage engineer build

Tel: 0171 495 5633 Fex: 0171 495 5634

Nike's trainers grace fittest tigers in Asia

The Big Mac has long been used for rough and ready comparisons of the cost of living Nike trainer has been adopted as a gauge of economic performance for developing coun-

While Nike's "swoosh" logo is unlikely to replace technical plottings of economic growth charts, the level of its trainer picture" indicator of Asia's development, according to Robert Fleming, the broker.

"Where Nike produces, mies roar," it says in a study. "So far every country that Nike has produced sneakers in has seen high, longterm economic growth."

Although the world's biggest sports shoe company has its headquarters in the US. it outsources most production to sub-contractors in Asia.

It started production in Japan in early 1972, then switched to Korea and Taiwan in 1975 and from 1987 began to expand rapidly in Thailand,

The broker said Nike's choice of locations was an indicator of countries' development, as it was made not may indicate growth pros-just on labour costs but also pects, a fall could signify a bright," Flemings said.

By George Graham,

Banking Correspondent

A group of international banks

will today launch a new com-

puter model for measuring

their credit risk. They believe

it could one day reduce the

cushion of capital that regula-

The method, developed by

J.P. Morgan, the US invest-

ment bank, will allow a bank

to quantify the maximum

likely loss it could make on its

different types of risk such as

consumer loans and corporate

The computer model, dubbed

CreditMetrics, has been backed

by Bank of America, BZW,

Deutsche Morgan Grenfell,

Swiss Bank Corporation and

Union Bank of Switzerland, as

well as by KMV Corporation, a

San Francisco consultancy

which is one of the leaders in

bonds into a single number.

tors require them to hold.



stability, staff quality, infra-

India is lagging behind in the Nike race. The company is still only testing the quality of workmanship there and has not yet made a decision about large scale production.

"This is evidence that Ishour costs alone are insufficient to cause Nike to move into a country. It also indicates that India still falls short in one or more of its criteria," the broker said.

While rising production of Nike trainers in a country

measuring credit exposure

the model works, it could

eventually replace the stan-

dard capital adequacy formula

laid down in 1988 by the Bank

for International Settlements

in Basle, which basically

requires banks to hold a capi-

tal cushion amounting to 8 per

radar screen already," said Mr

Stephen Thicke, head of corpo-

rate risk management at Mor-

The Basle formula does give

crude weightings to credits

with different risk levels. Mort-

gages, for example, are regarded as half as risky as an

But the old formula treats a

blue chip company and an

unemployed person with an

overdraft in exactly the same way, and makes no distinction

between a well-diversified port-

"I believe the issue is on the

cent of their assets.

ordinary loan.

credit valuation techniques. If folio and one where all the

bank regulators accept that risks are concentrated in

gan and a former regulator at That could make it easier to

Thailand's falling share of indicated its economy was ready to move from making trainers to semiconductors.

Using the sneaker guide, the economic future of China and Indonesia appears bright each has a 30 per cent share of

Nike's total production. Vietnam is set to lift its share of output from just 2 per cent in 1996 to 10 per cent in this year. "This rapid increase is a proof Vietnam meets Nike's criteria for a successful

production base. Vietnam's economic future, at least by the Nike indicator, is quite Banks design new way of

particular country or sector.

CreditMetrics not only

allows a wider spectrum of

credit quality, but also

calculates the likelihood that

different types of loan will

turn sour at the same time. It

therefore produces a lower

capital requirement for a well-

In addition, the model estab-

for credit risk measurement.

ments such as credit deriva

"What this does is set a

common standard so people

can begin to measure their

portfolio concentration, credit

risk and use of economic capi-

tal," said Mr Andrew Bruce,

Senior regulators, however

say they are still a long way

from accepting the reliability

of the model for credit risk.

head of risk at BZW.

diversified portfolio.

Centre National d'Etudes Spatiales and Aerospatiale. Mr Avanzi, who is French was previously head of CFM

difficult time for Arianespace, a French-based 53-company consortium, which has more than 50 per cent of the world's commercial satellite-launching market. It faces increasing competition, not only from US rivals such as Boeing and Lockheed Martin but also from

me 5 rocket. The first launch rocket crashed as a result of a computer software failure.

One executive described Mr Luton as "a negotiator, a man of compromise rather than a man of action". The French envernment is believed to be rguing that Mr Luton's strong links with Arianespace's public sector shareholders mean he is better placed to persuade them to adopt a more commen

per cent of Arianespace. German companies, including Daimler-Benz Aerospace, account for 18.6 per cent and Italian groups 8.1 per cent. Belgian companies own 4 per cent and UK organisations 3 per

Argument flares over choice of European space chief

The French government and European aerospace executives are arguing over the future leadership of Arianespace, the world's biggest commercial satellite-launching organisa-

The battle began on Thurs day when Mr Francis Avanzi, who was due to take over as chairman of Arlanespace in July, was summoned by Mr François Fillon, France's space minister, and told he was no longer the man for the job. The government is said to

regard his management style as too confrontational and too "Anglo-Saxon". Instead, it is proposing that Mr Jean-Marie Luton, director-general of the European Space Agency. become chairman when Mr Charles Bigot retires.

The government's move is strongly opposed by European space executives. They say Mr Avanzi has demonstrated his managerial skills since becoming chief operating officer of

Arianespace last year. The appointment of the new chairman will be discussed at Arianespace's administrative board meeting on April 17. The government is in a position to impose its choice of chairman because it owns large Arlane-space shareholders such as the

the joint venture between General Electric of the US and Snecma of France.

The argument comes at a

Arianespace is preparing for fresh launch of its new Arifailed last year when the

cial approach.

French companies own 55.5

THE LEX COLUMN Market meanderings

stock market are not surprising: a combination of rising interest rates and falling earnings growth is hardly good news for equities. It looks increasingly likely that last week's 25 basis point interest rate increase is only the first of several, as the US Federal Reserve tries to rein in inflationary pressures. At the same time, rising labour costs and the impact of a stronger dollar on overseas profits are taking the shine off the corporate sector. Earnings growth is expected to slow from a reported 14 per cent in 1996 to single digits this year and as

little as 4 per cent in 1998. Even so, this is hardly the stuff of nightmares. Nobody suggests US growth is coming to a sudden halt. The likelihood is therefore a gentle tightening by the Fed, in sharp contrast to its shock move in February 1994. And share prices have already reacted. The US market has fallen 7 per cent since its early March peak, while the UK, France and Germany are down 4-5 per cent.

Europe's more subdued reaction looks right. Apart from the UK, European interest rates are unlikely to rise much, if at all, during 1997. And earnings are still being upgraded as economic recovery, more competitive currencies and restructuring benefits make them-selves felt. Until the Fed completes its process of monetary tightening which could take until the end of the summer – equities will remain volatile. But the outlook thereafter is much brighter.

Lyonnaise/Suez

It is not surprising that Compag-nie de Suez's hig shareholders, led by St-Gobain, are now growling that they want some goodies out of the company's planned merger with Lyonnaise des Eaux. For a start, Lyonnaise's old rival Générale des Eaux, a Suez shareholder, has every reason to deprive its debt-laden competitor of part of Suez's cash pile. And if some loot can be extracted, that doubtless suits other Suez shareholders too. The real question is: are they demanding

enough? To see why they may not be, consider the position of a Suez shareholder. Even after their recent run, Suez shares are trading at a diswhen the exchange rate between Lyonnaise and Suez shareholders is fixed. Lyonnaise cannot sensibly personal taxes, reductions in import

FTSE Eurotrack 200:

offer a big premium to that. The deal may be next but it will not generate much in the way of concrete financial benefits. And there is no compelling reason to suppose investors will apply less of a discount to Suez's assets once they become part of Lyonnaise.

In short, unless Lyonnaise is planning an act of astonishing generosity, the deal will implicitly price Suez at well below its break-up value. In that case, a break-up would be the better alternative for shareholders. That would be controversial. But how, one wonders, do supposedly value-minded Suez shareholders such as Générale des Eaux and Axa-UAP plan to justify the present cosy alternative to their own shareholders?

India

Once again, India's political turmoil threatens the country's economic progress. Just as the United Front, a minority government made up of 13 parties, was starting to find its feet, the once all-powerful Congress party has withdrawn its parliamentary support.

For investors, the best hope is will come up with a new compromise candidate for prime minister. The prospect of another weak coalition is far from ideal. But it is still better than the uncertainty of another general election, which would probably strengthen the proposed budget, which contains aggressive cuts in corporate and

to legalise share buy backs. As so it should speed up much-ne deregulation, make equities me attractive and - ironically - box government revenues as lower rates persuade more companies i individuals to start paying tax

Longer term, India's rapid gro and well-controlled inflation me it an attractive investment. And even after dropping sharply in response to this latest crisis, the stock market is up 5 per cent this year. But until the government manages to pass the budget and underline its commitment to reform, caution looks in order.

Mutual life assurers

Is Britain on the point of another demutualisation wave? With Scot-tish Amicable gobbled up and Aus-tralian Mutual Provident appar-ently hot on the trail of another life assurer, many are tempted to think so. And having seen how much Prudential Corporation is paying for ScotAm, policyholders elsewhere are understandably licking their lips at the prospect.

They should not get their hopes

up too high. The fact that the ScotAm auction boiled down to just three serious bidders suggests the number of predators for these businesses is limited. Moreover, ScotAm's lavish price tag makes sense only because the mutual is being taken over, providing fat cost savings and allowing the ScotAm life fund to be closed and capital handed back to policyholders. A straightforward flotation wave, like that of the building societies, would deliver much more modest benefits for policyholders.

Nevertheless, even a few aggressive takeovers could usefully invig-orate the remaining mutuals - just as flotations have done for building societies. Faced with some biggish payouts from their peers, diehard that behind-the-scenes negotiations mutuals would be subjected to greater pressure to justify their fondness for the status quo. And just as mutual building societies have fought back by promising better rates to their borrowers and depositors, why could mutual life assurers not respond by offering hand of the religious rightwing BJP better bonuses? Policyholders are - already the largest party in par- less likely to be dazzled by upfront count of roughly 30 per cent to the liament. What matters most, how goodies, after all, if they have a

> Additional Lex note on Hammerson/MEPC, Page 23

Fro

HEAL'S

Congratulations to Heal's plc on its successful flotation

NatWestVentures led and arranged the equity funding for the management buy-out in September 1990

NATWEST VENTURES

NatWest Ventures Limited Regulated by 14/RD.

US to block EU meat after talks fail

Continued from Page 1

poor standards of its poultry plants. The Commission says the US practice of "decontaminating" meat at the end of its production chain is "an invitation to relax strict hygiene".

Europe today

sunshine in most of western and south-western Europe. The Iberian

peninsula and France will be sunny throughout the day. Low pressure will influence northern parts of the British Isles. Cloud and rain will prevail in Scotland and Ireland and most of England will be cloudy. A mixture of cloud and sunshine will cover the Benelux, Germany and the eastern Alps. Rain and snow will occur in western Scandinavia but southern areas will be dry but cloudy. South-eastern Europe will

Mr Nick Giordano, of the US's National Pork Producers, said: "It is clear that the EU

doesn't want to do this for political and other reasons which have nothing to do with

The administration is under

FT WEATHER GUIDE

pressure from Congress to act Thirteen US farm state senators this week wrote to Ms Charlene Barshefsky, US trade representative, urging her to "stand firm" against "the con-tinued recalcitrance of the

Most of France and Iberia will remain

Southern Spain will turn unsettled during the weekend. Unsettled and cold conditions will gradually spread south toward the Alps where fresh snow is likely in the north above 1,000 metres on Friday.

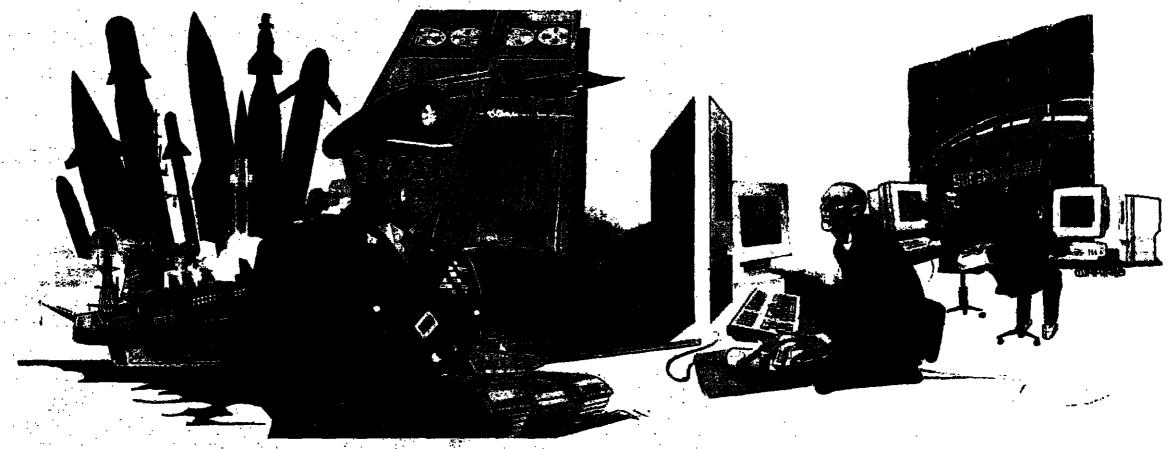
fine during the next couple of days.

continue unsettled. Greece, southern Italy and western Turkey will have

Five-day forecast

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Information Technology



rioned missile base is up for sale. The realestate company handling the property believes it would make a good commuter centre or anushroom farm, but commercial interest has so far been poor and the company recently slashed the price of this Cold War relic to

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Bharply Crisis, th per cent th Soverimen. budget nitment

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MEPC Page 2

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Military conversion is easier said than done, as the above example shows. But with governments around the world cutting defence budgets, many high-tech companies are reducing military work to seek out commercial uses for their skills and technolo-

"The growth we get from defence is not bad, but it's not as good as the rest of our business," says Pierre Yvea Simonot, marketing director at Anglo-French IT services group, Sema.

Defence revenue has dropped from 24 per cent of Sema's turnover in 1995 to 20 per cent last year. The deepest defence cuts have been made in high-tech projects, many of which were dreamed up before the collapse of the Warsaw Pact, Critics say battlefield digitisation technologies (see report, page three) are largely irrelevant to the crude warfare practised in Bosnia, Rwanda or Somalia or to peacekeeping mis-

"I am not sure if the projects of the 1980s are still appropriate," says Mr Simonot. "Military operations today are rarely war operations." Only the Gulf War has so far given the defence industry a chance to test its hightech weaponry in earnest. But the Pentagon is having to scale back investments in such technologies to satisfy more pressing demands on its coffers - such as the \$2bn budget overshoot for swords into ploughshares, the

From swords to ploughshares

Many advances in information and communications technology were triggered by costly defence research projects. But now, as governments around the world make big military cutbacks, high technology companies are seeking new commercial markets, reports Geoffrey Nairn

stationing US troops in Bosnia. In Europe, the old threat from the East has vanished and with it the justification for many defence projects. France and Germany, for example, have scrapped plans to include an advanced information system in the Tiger attack helicopter they are jointly devel-

Other projects have been killed by governments distillusioned with the cost over-runs and delays that seem to plague military II systems, In February, the UK Ministry of Defence cancelled an electronic warfare system that was five years late.

The end of the Cold War has had a tremendous impact on the defence industry, triggering layoffs and mergers on both sides of the Atlantic. More than 28,000 defence workers have lost their jobs in the San Diego area of California, for example.

The trend is far from over. In February, the US aerospace company Northrop Grumman became the latest in a long list of defence contractors to alim down: it will close four plants and shed 755 jobs. Texas Instruments and Hughes Electronics are pulling out of defence electronics and selling their interests to Raytheon. Lockheed Martin has proposed to buy the defence arm of

Loral. When it comes to beating imental aircraft and rockets, has now made a remarkable shift from defence to commercial mar-

kets – see report, page two. GEC-Marconi.

civilian uses for military technologies. The two countries have set

fied 44 high-tech sectors where

In Europe, consolidation is also happening: France seeks a buyer for the state-owned defence electronics firm Thomson CSF: Germany's Siemens is looking to withdraw from defence electronics; Italy's state-owned Finmeccanica wants to combine its defence activities with the UK's

To cushion the impact of declining defence sales, many IT companies are seeking new commercial markets. The US government has earmarked \$500m to encourage this trend. But the change is not easy for companies that have grown fat on generously-priced defence work. In the commercial sector, margins are alimmer, projects shorter and

competition greater.
US suppliers are particularly keen to learn from Israel's IT industry's successes in finding up a task force to further promote Israel's dual-use technologies and find US partners - see

report, page four.

In the US, "major defence contractors are coming to us and saying 'help us out,' " says Len Zuga, a senior analyst with Frost

US-based Rockwell International, & Sullivan who spent 12 years Thinking Machines, re-emerged in 1995 but it has learnt its les-The research group has identi-

than defence.

military expertise could find a market niche, ranging from industrial electronics and test equipment to satellite communications. Some companies have found their own niche. Spanish warship builder Bazan has converted its anti-missile technology into system for monitoring forest cameras to locate fires and has been installed in several Spanish

One of the largest IT companies in the defence sector is US services giant Computer Sciences Corporation (CSC). It decided to reduce defence and government work several years ago, and federal revenues have thus dropped from 57 per cent in 1992 to 37 per

ther IT companies have been less successful at coping with a drop in defence orders. Since 1994, three supercomputer suppliers have filed for Chapter 11 protection. victims of defence cuts - military applications were once a big market for supercomputers - and advances in commodity processor technology that have made speci-

ware obsolete. One of the other companies,

son. It now sells software for data mining rather than exotic hardware and focuses on commercial markets, such as risk management and fraud detection, rather

The most difficult conversion process faces former Eastern Bloc countries, whose defence suppliers were once an industrial elite but now struggle to buy raw materials and pay salaries. Nato believes the successful conversion of the defence sectors of these countries is crucial to their economic reform. The European Union, US and Japan have spent Ecu65m (equal to \$74.7m or £46.8m) during the past two years on 200 projects to help 11,000 Russian military researchers switch

to civil activities. "In the former Soviet Union there is an enormous reserve of scientific and technical knowledge but no-one knows how to transform it into commercial products," says Enric Trillas, an expert on defence conversion at the Polytechnic University of

Stins Coman is an example of successful defence conversion in the former Soviet Union, This Russian computer company was founded in 1992 by engineers alised number-crunching hardfrom the aviation industry centred around Zhukovskiy, near Moscow. The end of the Cold War

brought dramatic changes - "we once had access to the best people and technologies, but by 1992 the government could no longer pay decent salaries," says Timur Issev, head of marketing at Stins Coman.

Stins Coman was founded to produce a cheap PC, the Amata, assembled from components imported from Germany. The Amata is still made, but 70 per cent of the company's \$60m turnover now comes from higher-margin network integration work. It has agreements with Cisco and Northern Telecom. Many IT companies insist there

are still opportunities to be had in defence. But the emphasis today is on services such as outsourcing and software to improve logistics and accounting rather than the Star Wars technologies of the 1980s.

"Our focus is the second line not the front line," says John Parker, sales manager of Norsk-Data ServiceTeam, which provides IT services to the UK's MoD. It supports the computer systems that run the British Army's worldwide logistics infrastructure, for example.

Anthony Cole, defence director of UK systems house Logica, says the MoD has learnt from the commercial sector and is looking to IT to automate functions such as payroll and accounting that tra-ditionally were labour intensive.

"Historically, the MoD was very 'wealthy' in manpower, but with the defence personnel cuts there is now pressure to get more out of FT." he says. Defence comprises 9 per cent of Logica's turn-

Interview :

of Unisys

View from the James Unruh

> One of the biggest changes to take root in defence has been the discovery that cheap commercial off-the-shelf technologies ('Cots') can be as good as military-specification products - "Cots has really taken hold and costsavings in excess of 50 per cent have been made by the [US] Department of Defense," says Mr Zuga of Frost & Sullivan.

Sema demonstrated the value of Cots to the French army by convincing it to change the specifications for an IT system so that Sema could tender an off-theshelf logistics software package, rather than write software from scratch - "if you start from the beginning with the view that you can use Cots, you can save a lot of money," says Mr Simonot, who estimates the revised specifications saved the French army at least 10 per cent.

ON OTHER PAGES

Electronics and economic warfare; winning a battle without firing a shot

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CYBER TERRORISM . By Paul Taylor

West faces prospect of hacker warfare

How even ordinary personal computers could be used to disrupt economies and bring nations to their knees

using computer keyboards, virus programmes and 'logic bombs'. Nevertheless, if the 'information war' experts are) to be believed, the results could be just as dev-

Over the past decade, information warfare has stepped right out of the pages of a sci-fi novel to become both a potent new weapon in military arsenals, and conversely a frightening new threat to be countered. In the US and elsewhere in the developed world, military minds are facing up to the prospect of having to wage cyber warfare against perhaps an unseen enemy.

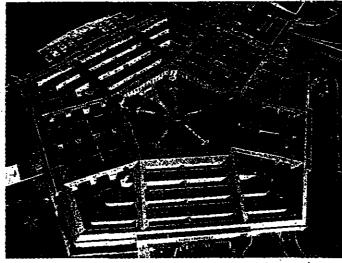
Almost 30 years after the US Defense Department created the Internet as a communications system invulnerable even to a nuclear attack, the global web of computer networks is itself now viewed as a national security risk by the Pentagon and other military security chiefs.

The increasing dependency of government agencies and com-

not with missiles, tanks and land mines, but by communications, air traffic control and law enforcement, together with the rapid growth of international access to the Internet, has created new and substantial vulnerabilities

"We are rapidly getting to the point where we could conduct warfare by dumping the economic affairs of a nation (via computer networks)," said US Senator John Glenn in response to testimony before a hearing on cyber security last summer. But the potential to wage cyber war is a two-edged sword which can be used by and against a nation. Until relatively recently, the concept of 'information warfare'

or 'cyber wars' had been largely dismissed as alarmist rhetoric pumped out by those with an interest in maintaining the West's vast intelligence apparatus. But the potential use of computer networks to undermine public confidence, disrupt essential services, play havoc with the disable or compromise them. economy or damage military capabilities, is now being taken seriously in Washington and Office, the investigative agency



National Security Agency, potential adversaries of the US in 120 countries are gathering data via the Internet about US Defense Department computer networks and developing methods of

Data from a report last year by the US General Accounting

elsewhere. According to the US of the US Congress, suggested that Pentagon computers are a frequent target of hackers. destroyed sensitive data and software. They have installed back doors' into computer systems launching untraceable attacks to which allow them to surreptitiously regain entry...they have crashed entire systems and networks," said Jack Brock, a

are a multi-million-dollar nuisance to the Pentagon, At Worst, they are a serious threat to national security. Defence Department computers containing non-classified but sensitive data are attacked about 250,000 times a year, according to the Defense Information Systems Agency, a Pentagon computer security force which has opened a "continuity-of-operations" centre in Slidell, Louisiana.

Another military unit, the Automated Systems Security Incident Support Team. is the Pentagon's emergency team dedicated to responding to attacks on the US military's panoply of computer systems. In one 18month period the unit received 28,000 calls for help and isolated thousands of hacker programmes, known as 'critters', which are then saved for future

In the wake of the Gulf War. doomsday scenarios such as panic on the world's stock-markets as share prices inexplicably plummet or a run on commercial banks after customers' accounts are plundered electronically by mercenary 'hackers', are being taken much more seriously. A number of high-level

tion which conducted a number of cyber-terrorism exercises on behalf of the Secretary of Defense have also been completed. A report summarising its findings, called A Strategic Informotion warfare: A New Face of War, concluded that "the features and likely consequences of strategic information warfare point to a basic conclusion: key national military strategic assumptions are obsolete and inadequate for confronting the threat posed by strategic information warfare.

prompted all three wings of the US military to set up 'Infowar' offices, staffed by graduates from the National Defense University in Washington, who have been trained in everything from defending against computer attacks to using virtual reality in

planning battle manoeuvres. Intelligence agencies in the US and elsewhere have also begun "dabbling in hacker warfare." According to a cover-story in Time magazine, published 18 months ago, the National Security Agency and top-secret units in the three armed services have been researching ways to infect mation systems become attracstudies including one by the enemy computer systems with tive first-strike targets."

Another type of computer programme called a 'logic bomb' can remain dormant in an enemy system until a predetermined time and then wake up and begin destroying data. There have been reports that the US

Central Intelligence Agency also ran a clandestine scheme known as 'chipping' under which booky trapped computer chips were directed towards weapon systems destined for potentially hostile countries. But some Infowar weaponry is ven more exotic. For example

the Los Alamos National Laborauch warnings have tory in New Mexico developed a suitcase-sized device which generates a high-powered electromagnetic pulse. Positioned outside a central bank or a communications centre, the device can literally burn out all the electronic components in a building.

As author Winn Schwartan notes in his book Information Warfare: Chaos on the Electronia Superhighway: "Information warfare is an electronic conflict in which information is a strategic asset worthy of conquest or destruction. Computers and other communications and infor-

CASE STUDY: Shifting from defence to commercial markets . Exclorer Foremake

Bold move by Rockwell The giant US defence company is

industry.

hen it comes to the Boeing for about \$3.2bm. subject of beating swords into ploughshares, US-based Rockwell International provides one of the best and most visible systems for Atlas and Delta success stories and shows rockets - would, instead, that it is possible for a giant now make its way in comdefence company to move mercial markets and build from the cosy world of gov- on its reputation as the leadernment defence contracts to ing supplier of communicathe very competitive market- tions chips, and providing place of the commercial sec- products for the automotive

Last August, Rockwell completed its strategy of business strategy that was transforming itself into a adopted by Rockwell in the commercial company by sell- mid-1980s, during a time ing its aerospace and when Boeing relied on about defence business units to two-thirds of its revenue

for such high profile projects such as the B-1 bomber, spy achieving a remarkable transition satellites and Space Shuttle The company - which was programs. famous for the creation of Along with other large the B-1 bomber, experimental aircraft, propulsion

defence companies, Rockwell saw that the end of the Cold war would bring problems, and instead of trying to fight with its rivals for a declining market share, the decision was made to take its technology and redirect it to commercial markets - markets that were expanding, rather than contracting.

The sale to Boeing forms a Rockwell's success in making the transition from its huge reliance on government contracts that involved leisurely multi-year deals most large businesses. with safeguards for ensuring

from government contracts profitability, to the unpredictability of commercial markets, is a stunning achievement. Many managers like to talk about "the major paradigm shifts" that must be understood and adapted in making money in fast-changing worldwide markets.

> But for a company like Rockwell, which understood the world of government contracts and the fundamentally different economies of that market, to successfully move to the very different kets, represents a paradigm



The end of the Cold War signalled a shift in strategy

division, represents one of modem manufacturers. the company's fastest growdemands of commercial mar-ing businesses: its focus on become a \$50n market this communications chips, espeshift of a magnitude much cially computer modern chip greater than that faced by sets, has made it into the bit per second modern chips leading supplier of modem that will help speed up Inter-

Modems are expected to year, and Rockwell is leading the way with fast 56 kilo-

Brooktree and its technology for producing chips that support modem communica-

It has also begun work on a new \$1.2bn fabrication plant that will churn out millions of its modern chips, showing it is able to make the tough investment decisions that are necessary to stav ahead in commercial markets.

A key part of Rockwell's been the way it has changed its information technology structure. The company has embraced a distributed computing environment, rather than its former centralised installed optical disk storage Rockwell's Semiconductor chips to the majority of net access for millions of systems, groupware, product commercial sector.

modem users. Last year, data management systems Rockwell also acquired and video conferencing to help guide its business strategy.

Rockwell's transition he tions of as high as 1.5 mega-been rewarded by study hits per second, opening a growth, but it has meant it way for even faster Internet has had to make someway tough decisions along the way, dropping unprofitable parts of its business and making the necessary favort ments in profitable parts of its business, such as its Rockwell Automation division which make motogs and drives for factory produ

Furthermore, as the US business metamorphosis has Defense Department moves more toward relying on adapting commercial products, Rockwell can still be a supplier of key technologies to the government, but with the added benefit of refining mainframe systems. It has its technology through the competitive markets of the

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PERSONAL . The Open Group clarifies its role

Letter from Mr Simon Lofthouse of The Open

Group: Sir, The article about the future of Unix and Microsoft Windows NT in the March was certainly one of the better pieces of coverage on this subject, but I would like to clarify the position of The

Open Group. Referring to The Open Group as "representing the Unix camp" is a little misleading as it implies that we recommend Unix over

other products. The Open Group does not and cannot support or promote one product over another. We can comment on technologies in respect to our definition of an open system, but it is the user community that decides on the success or failure of a

product, not us. With over 300 members any of which use both NT and Unix, we understand the need for our activity to remain relevant to the industry as a whole, which includes both operating

Yes, a lot of our sponsors have successful Unix operations, but many of them, such as Digital Equipment Corporation, also support NT. Microsoft has also been a member for some time and we have worked closely with the company on a number of occasions. Simon Lofthouse, Corporate Communications, Europe, The Open Group, Apex Plaza, Forbury Road, Reading RG1 LAX; e-mail: . Tel: +44 (0)118 950 8311 Xt 2247; fax: +44 (0)118 950 0110 http://www.opengroup.org

Military men have re-think on off-the-shelf solutions

The battle to cut costs means squeezing value out of every contract

omputer security has been a formal concern in the defence establishment since the early 1950s. With desktop PCs appearing throughout bases and onboard warships during the 1980s, the threat of electronic emanations being intercepted and interpreted created a temporary panic.

Then, for a short period, personnel operating computers in frontline units were ordered to run two systems side by side in order to scramble screen emissions. The Tempest Specification, a hardware definition that demanded systems hardened against external spying, became standard.

As computer systems proliferated, defence officials faced a further dilemma. Technology offered administrative efficiency, but hostile hacking or the introduction of a virus could do the same damage as a bomb.

The UK's Ministry of Defence is independently credited with possessing almost uniquely secure systems - a 40-year history of assessing computer threats has guaranteed that high reputation. But the cost of this vigilance has been a massive bias towards bespoke IT developments and the exclusion of cheaper and more popular commercial systems.

With the emergence of the commercial off-the-shelf ('Cots') doctrine of IT pro- He describes the traditional

rethink its attitude to secu-

within the department's work to create the MoD's £21.7bn annual budget beloved "islands of secumeans squeezing value out of every single centract. Graham Paterson, assistant director of technical information security at the Defence Ministry in London, says Cots is provoking a sea change in military systems – "if we can get good security within Cots, then the knock-on effect could be enormous. Getting rid of bespoke systems could cre-

ate huge cost savings". The MoD has not quite arrived at these savings. But Paterson thinks it is heading in the right direction, courtesy of the Security in Open Systems Technical Demonstration Programme, known as TDP. Funded on a half-and-half basis by the MoD and a consortium of IT suppliers including Microsoft, Novell, Digital and EDS. this has resulted in a series of seminars proving that commercial systems con broadcast messages to the

MoD's own security standards. The technical standard at work here is called Public Key Encryption. It involves two software programmes: one, the public key, encodes the outgoing message; and a second, user-confidential key, translates it for the recipient. For the MoD, this is a departure from received wisdom. Abbey Wood, a purpose-built £254m development outside Bristol, housing the MoD Procurement Executive, is home to TDP project manager Jim Alyson.

bump in the wire", meaning an encryption barrier isolat-Keeping defence projects ing the system or local net-

> rity". TDP satisfies Alyson in that it contains algorithms that make any attempt at tampering with message en

route "very obvious" With TDP, the defence community has its eye on economies, Alyson confirms. "Normally, we spend money on top of the standard equipment price-tag to add our own security. The idea of TDP is to interest the commercial world in developing secure software that we can be happy with."

Abbey Wood is a very potent symbol of the MoD's attempts to streamline its relationship with defence suppliers. The 4,250 staff at

'Firewall software' is high on the shopping list

leading suppliers, plus 10,000 other businesses. The MoD wants to move towards electronic commerce in its dealings with these suppliers, but the security question is hindering that development. Back in London, Paterson agrees that the Internet is an obvious delivery mechanism "we don't ignore it, but we don't use it with our primary systems either. If you're connected, what will you

An Internet terminal sits in one corner of Paterson's office, but it is resolutely a standalone system with no connection to any other MoD

import?"

"Really grubby viruses" are Paterson's big concern, and none of them will enter Internet. Firewalls, security ways and act as a gateguardian for computer net- to the Cots philosophy. works, can allow the users of must listen and come with sensitive systems to connect to the outside world. And the UK defence community could be a big customer for

Paterson's approval. "We are taking a cautious approach, we're waiting for fully evaluated firewalls to arrive," he

The computer systems giant, Unisys, won the contract to install Abbey Wood's IT infrastructure in a 249m deal. Under the umbrella term, Aspect. brought in popular commer cial software from suppliers such as Oracle and Microsoft to form a suite of computer

The problem confronting Unisys was that each employee might want to log into several tools in the course of a day's work, but much of that work involves confidential details of contracts. Rather than issue Aspect's 4.250-strong user community with a bag of passwords, it constructed a security architecture named

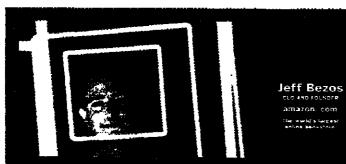
'Single Sign-On'. Unisys' project director Mike Spanner says any user can log on with the one password; he then gets a profile of those parts of the system he is authorised to use. Single Sign-On funnels users into just the right areas and protects other work while avoiding lengthy log-on procedures and long lists of

Spanner points out that giving people several passwords only adds to the temptation to write them down a fundamental breech of

security procedures. The world of Cots and TDP will open doors to commer cial software suppliers, And Paterson's admission that firewali software is high on the MoD's shopping list means business for whoever can reach the elusive compromise between commercial viability and the highest

security standards. According to Paterson. suppliers should not be too Whitehall's systems via the intimidated by the MoD's understandable security fixaprograms that face both tion - nobody has a golden solution. If we want to stick

> hest-of-breed solutions". Systems security report: sec



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How sensors help create a

cybernetic battleground Field commanders use IT systems to

technology is having a profound effect on the way generals think about warfare. Yet in a reversal of the trend since the second world war, the upheaval in military doctrine comes not from technologies developed by armed forces, but from the phenomenal pace of civilian computing power.

The vision of people such as Admiral William Owens, who retired last year from the board of the US Joint Chiefs of Staff, is that IT will také data from a wide range of sensors around the battlefield and fuse it into a single clear picture which a commander can use to direct the

gather data which can then be fused into a single clear picture.

Some are calling it a "Revolution in Military Affairs," which, so its advocates claim, will sweep away the fog of war. Others, more prosalcally, refer to "battlefield digitisation" as the coming thing.

Whatever its title, there is no doubt that information technology is having a profound effect on the way are found then be greated down that information technology is having a profound effect on the way are found to make turn of the center facilities of the turn of the center facilities of the turn of the center facility of the turn of the center facility of the turn of the center facilities. That technology so impressed President Mitter the first time of France during the Guiff war. These Sentries, with their distinctive missing the Guiff war. These Sentries of the Sentries with their distin may be able to understand fully what is going on

> That, at least, is what the optimists hope. And the ele-ments which could make such a vision into a reality are beginning to emerge.

> throughout the battle area and bring their forces to

bear in a co-ordinated fash-

First, the sensors to detect the exact location of enemy forces are being steadily refined. The US, Russia and China have long fielded spy sateRites, but the resolution available through equipment such as the US "Keyhole" spy specifies will mean that the entire earth's surface will be mapped down to a resolution of a few centime-

as the successor to the Lock- Awars jets. heed U-2 and SR-71 "Blackbird" spies in the sky. The Pentagon firmly denies that recomnaissance aircraft pro-

the E-8 "J-Stars" Joint Sur-Other spies are also at veillance Target Attack work. Rumours continue to Radar surcraft to the Pentacirculate about an Aurora gon, and is hoping to perspyplane, built by the US suade the European Nato d said to be capable of allies to buy a fleet of the 3,500 mph, which would act aircraft similar to the Nato

J-Stars can monitor the armoured personnel carriers Amora exists, but even if it from 200km behind the front does not, the U-2 and other line, and was originally line, and was originally designed to manage a Eurovide a more detailed picture pean land battle. But it can to back up the views from also be used to build up a radar picture of the location Closer to the battlefield, of forces, and has been used the long-standing Bosing in Bosina to track violations Awars E-3 "Sentry" sircust of the Dayton peace agreenow acts as an indispensable ment. J-Stars can be used air traffic control and air even when ground observers battle manager: one which are blocked from approaching weapons collection points and greatly helped

> aircraft with radar or video cameras are being developed to spot mobile enemy units. ne such as the Lockheed 'Martin "Longbow" UK: McDonnell Douglas ers, are queueing up to take Apache helicopters will on the challenge. Yet with "paint" the entire battlefield in a few seconds, fixing the position of all armoured Weapons are also being

leveloped to make use of somely difficult. this data. Once the enemy is located, speed is of the essence, so that the target can be destroyed before it field radio programme was has a chance to move. The originally designed as a idly moving technology, it Pentagon last year granted Boeing a contract worth over film to develop an air for use by the British Army, which will be in service for a integrated command. But

Helping to keep the peace; an airborne techn on upon the J-STARS rader survei

instantly destroy missiles industries against a consorhundreds of miles away. IT is also being applied to

ever more accurate cruise missiles, so that fixed points such as command hunkers or communications sites can be destroyed. What seemed remarkable in the Gulf War is now becoming commonplace and relatively chesp.

But the tricklest part of battlefield digitisation lies between these two tasks of acquiring targets and disnatching weapons to destroy them. Data fusion is the trendy name given to the the Hor troops implement processing problem of bringing together all the different sources of data and integratwide range of pilotless drone ing them into a coherent picture of the battle.

Companies such as GEC-Marconi, BAe-Sema, Siemens Plessey in the UK, and Lockheed Martin and EDS in the radar being fitted to US and US, as well as a bost of othmany of the sources of information providing different types of data and protocols, the task of fosing the data in battle conditions is fear-

> Three examples from the UK demonstrate some of the pitfalls. The Bowman battle-

tium of Siemens Plessey and

However, as the possibilities for battlefield digitisation started to emerge, the

Defence Ministry kept it wanted from the system, with the result that the pro-

have now been largely fixed,

delayed and costs have millions of lines of computer source. In part, this is under-code from many sources standable: in an area of rapstraightforward network does not make sense to crystoying with the overall idea using commercial equipment tallise to early a system

gramme has been repeatedly but the task of integrating

The command and control

repeated criticism because of

the difficulty it has had in integrating all of the data from the ships sensors and

operating the weepons at the

same time. The difficulties

remain formidable. In the US, the Pentagon is of a "system of systems"

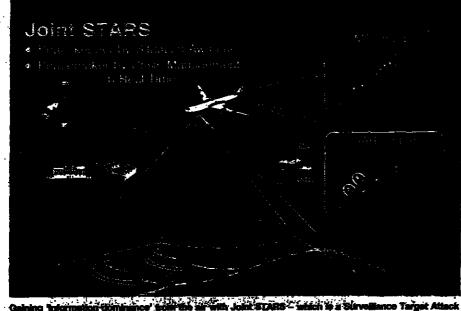
system of Britain's Type-23 from "Force XXI" with hiventional troops have been disappointing. Each soldier ended up carrying an extra 40lbs of computer bardware, with little to show for his pains. Such technical prob-lems will eventually be cracked, though it is likely than enthusiasts such as Admiral Owens would

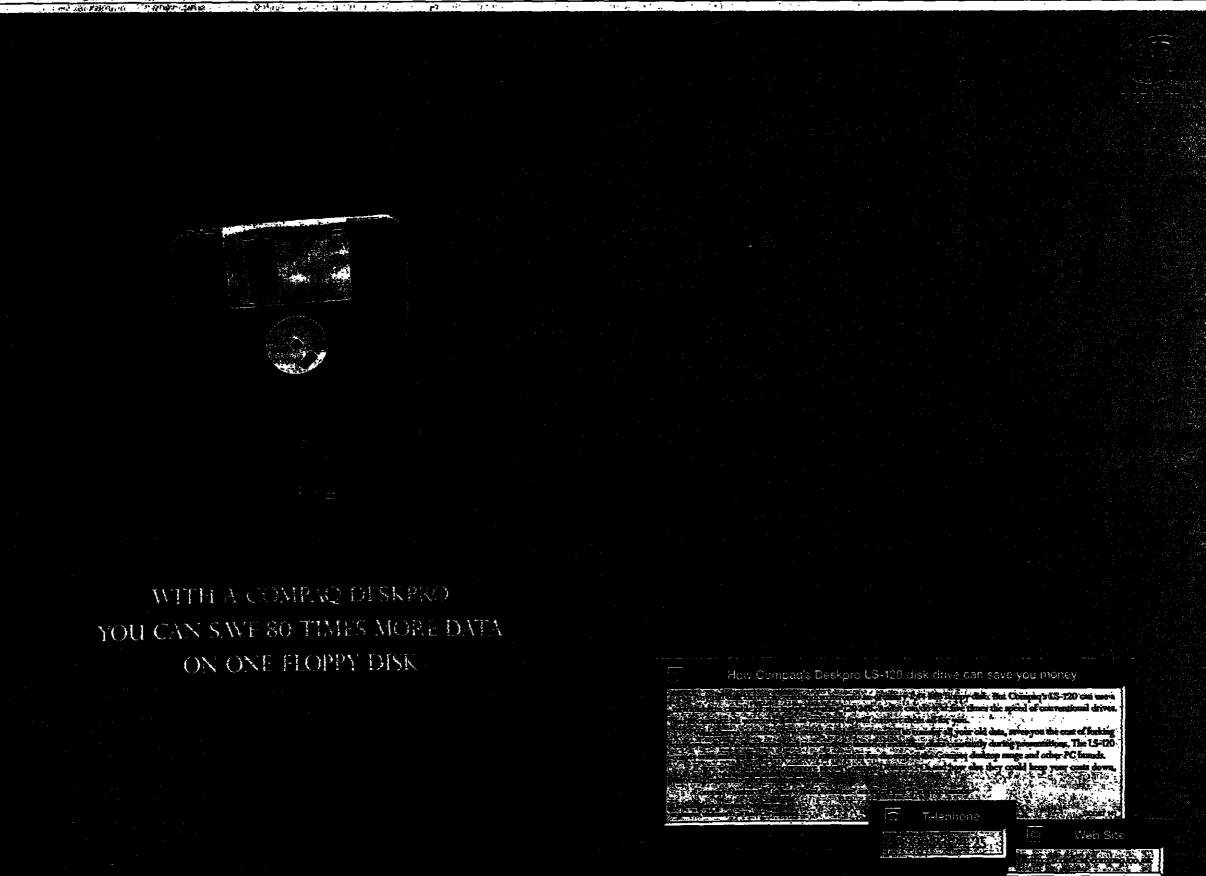
believe. Whether it will really blow away the fog of war is a different question. Enemies are likely to develop defensive responses, including false target signals, jamming, electronic warfare and information sabotage.

There is also the ever-present threat from code-breakers. The Pentagon seems happy that its encryption methods are way shead of cracking methods, yet Pentagon computers are regularly penetrated (see report on cuber warfare, facing page). Transmitting the entire allied information base on a radio web would be highly risky unless the links really are secure.

As with other developments, the grandiose Revolution in Military Affairs seems unlikely to eliminate the fog of war. Instead, the uncertainty, fear and mistakes are likely to drift into

COMPAQ





IT in defence

DEFENCE AND THE MILLENNIUM BOMB & BY GASHING

Leaving nothing to chance

Military chiefs order checks on weapon systems with embedded chips which may not recognise the year 2000 date change

peacetime threat to the effectiveness and reliability of their operations since the end of the cold war: the so-called computer millennium bomb" problem.

At its most simple, it is merely a glitch in the way dates are recorded that prevents computers from differentiating the year 2000 from the year 1900, because most older computer systems were only programmed with a two-digit date-field to serve them until the end of the century. But computers with two-digit date fields are everywhere in both British and American military hardware - including "embedded" computers that are part of

According to Robin Guenier, executive director of the UK government's Taskforce 2000 group, senior military officials are con-

ilitary experts on both cerned about what will happen to sides of the Atlantic are missile systems that have embedtrying to face down ded chips in them designed to what could be the most serious maintain and record information about when the missiles have last been serviced. Some of these missiles are apparently designed to completely shut down when they have not been serviced for a specified period.

Guenier says he has been told in discussions with military officials that when the Year 2000 rolls around, these systems will record their current date as January 1, 1900 and therefore the calculated date since last service will be decades - causing the systems to instantly shut down. "The problem with embedded

chips was probably the bigger part of their problem - and logic chips are embedded all over the place." he says, "Many are old, the manufacturers don't exist any more - therefore finding and fixing them can't be done in an

American officials are even more blunt: Guenier says that at a Washington conference, he was told that "if [fraq's dictator] Saddam Hussein wanted to launch an attack on the US, the first day of year 2000 would be the time to

Needless to say, the problem has been very much on the minds of US government officials and the US Department of Defense (DoD), which has held a series of meetings with the US House of Representatives Subcommittee on Government Management Information and Technology. The latest meeting was held last month when the DoD. reported that its plans for handling the crisis were "on track".

Still, in reports dating back to last year, the Defense Depart-ment has admitted that embedded chips in their weapons system do represent a unique problem. Many year 2000 prod-ucts do not work with the older languages. As a result, the department will be required to re-allocate resources to solve the automated fashion. It is a big, problem manually or to develop

"in-house" automated support

The DoD has a number of embedded weapons systems that contain computer chips. "Usually, the DoD is the sole customer of such chips," the department explained in a briefing to the committee last year. "The solu-tions to the year 2000 problem may require replacement of the old chips with new chips. New production lines for new, year 2000-compliant chips may be required. This could take significant time and be very costly."

Meanwhile, the Congressional Research Service Report on the Year 2000 issue prepared for US military agencies last year, highlights the unique concerns of the DoD that set it apart from other Federal agencies.

resources, the DOD is focusing on correcting its mission critical made in some weapon systems whose clocks store dates using two-digit codes," explained the report. "Computer chips that store dates in 'firmware' may have to be replaced on missiles and other weapon components. Some of those chips, however,

"Hardware changes must be

House of Representative committee last year, further underline most business information Peter de Jager; see pages 5-7 may no longer be in production.

In addition, the DOD has many

unusual computer languages for which software analysis tools are

not commercially available. Given the limited time and

systems, and may use temporary

the military's concern about this issue: "Inaction is simply unacceptable; co-ordinated and collaborative action is imperative. We have taken action to address the Year 2000 issue, and we will continue to take action," he pledged. "We are placing particular emphasis on our weapons

fixes for other systems. Finally, statements made by systems and on systems related US Assistant Secretary of to safety. Fortunately, weapons Defense Emmett Paige, Jr. to the systems are, for the most part, much less date-intensive than

systems, so there are fewer Year 2000 'fixes' which need to be made in them.

"Nevertheless, we still have to: check all weapon systems for the Year 2000 problem. When we are dealing with weapons and their delivery systems, we must leave nothing to chance."

view with leading authority,

says MAK's Mr Katz. in December, MAK announced a new PC-based

software product designed for the

market. The product, VR-Stealth,

cost-conscious military simulation

provides a 3D bird's-eye view of a DIS

"attach" to a DIS object such as tank

VR-Stealth can generate detailed

images using just a a Pentium PC and

a low-cost graphics accelerator card.

The cost of 3D image generation

hardware is plummeting," says Mr

Lockheed Martin, unveiled a chipset

performance of high-end workstations.

The chipset draws on Lockheed

combat simulators and Real 3D was

opportunities in the civilian market

from modifying its software to work

better with slower dial-up Internet

connections. This would allow

consumers to play multi-user 30

games over the Internet. Analysts

believe this market could be worth

set up to find civilian markets for the

Katz. Last November, Real 3D, a

for PC graphics accelerator cards

Martin's experience in building

technology. MAK also sees

which it claims matches the

subsidiary of US defence group

or airplane and unobtrusively watch

the battle as it happens.

battlefield and allows observers to

INNOVATION . By Michael Dempsey

How defence cuts trigger new software business

IT administration systems help to boost efficiency amid severe cash constraints

The presence of computer power in expensive military equipment, the "big ticket hardware" that takes up so much of defence budgets, is taken for granted. The information processing element of fighter aircraft, known broadly as avionics, can now account for up to 50 per cent of the development costs of a

new type.
Overall defence spending has come under pressure since the end of the Cold War, but this has not dented revenues for the defence divisions of software companies. Anthony Cole, defence director at the UK systems house, Logica, has seen UK areas taken by Tornado airrevenue from the sector rise by 50 per cent over the past three years. In its last six months Logica has turned over £12.4m in defence, 8 per cent of its total revenue for

the period. "At a time when there's pressure on defence budgets, IT is needed more than ever." Cole explains. Military IT spending on administration systems can deliver much-needed efficiency and reduce the number of personnel tied down at the "blunt end" of the military

machine, he says. For front line forces, the constant reduction in assets available is driving orders for companies such as Logica - "it's a fact of life that aircraft, tanks and ships. Clever technology can help us achieve results without extra military platforms."

Software contributes significantly to the speed at which military information is disseminated and inter- jet's control surfaces, based

o secure peace, you must first prepare for

involves interconnected pieces of software analysing information within pre-ordained rules, were a key component of a joint project between Logica and the Defence Research Agency's Advanced Image Processing

Terminal. The idea behind the AIPT was to allow neural networking software to search through thousands of images taken by a reconnaissance camera and identify "the pictures that matter" by associating them with recognised

This process is made possible by algorithms, written by Logica programmers, that enhance the visual images in the first place. AIPT was thrust into the front-line during the Gulf War, when the Royal Air Force used it to analyse film of target

craft. The application of neural networks to defence problems reflects a long journey undertaken by software houses trying to exploit the elusive realm known variously as artificial intelli-

gence or expert systems. Exploiting this esoteric area has presented many problems, but the defence community seems to have found its way past them. In the US Nasa's Ames

research facility has turned

to neural networks to help battle-damaged fighter aircraft make it back to base. The \$5m Smart Aircraft project is taking to the air in a specially-modified F-15 fighter. Joe Totah, an aerospace engineer at Nasa Ames, explains that the Intelligent Flight Control Program "observes patterns in the real world and then learns to carry out different

The idea is that the IFCS will send to signals to the

preted. Neural networks, a on sensor data that tells it school of software that how conditions vary from what would normally be

> IFCS will take a long time to find its way into production aircraft, but future generations of US fighters could rely on it to stay aloft despite severe damage. The productivity gains

trumpeted by software developers are having an impact on military projects. Warship builder Vosper Thorneycroft employed mathematical modelling software from US supplier Matlab to design the autopilot on Sandown Class minesweepers.

This small piece of technology allowed Vospers to exploit one of the minesweepers' most important characteristics, a set of thrusters under the hull that can swivel in any direction. This matters in the world

Nato approves the purchase of off-the-shelf software

of minesweeping, where a vessel needs to hover over a fixed point and then move slowly and methodically over the seabed without interference from tidal pat-

products

Excess use of the thrusters interferes with sonar signals, so an effective autopilot can make a huge difference in the hunt for sophisticated mines built to lie on the seabed and then fire torpedoes in response to the distinctive sonar signature of target

Henry Robinson, a former Vosper employee who now works with the company as director of an independent consultancy, H Scientific, says Matlab allowed him to devise a very specific neural

example of looking for patterns and making associations: in this case, saying this is what the wind and the tide does, so this is what

the ship will do' ". Reliance on commercial software products fits in with a Nato-approved procurement philosophy of 'commercial off-the-shelf, or Cots products, (see also computer security report, page two of this Review).

The Royal Navy's most sensitive warships, the Trident missile-carrying Vanguard submarines, are getting a whole new suite of sonar with associated command and control system courtesy of BAe Sema, a 1,600-strong software house.

BAe Sema uses software from French company Ilog to model the graphics that allow naval personnel to interpret and react to complex computer displays while operating under the stress of warfare.

llog cuts back on development time by employing prewritten chunks of code that generate the desired graphical interface. Desmond DeLandro, tech-

nical director at Rog in the UK, points out that warship design has changed dramatically in the past two decades: "You have no choice - you must use IT to put a warship together today because they are four or five times as complex as they were, 20 year ago. We now have more sonars; you have to analyse threats a lot quicker and you have less people to do it with."
The entire BAe Sema pro-

gram for the 16-strong British submarine fleet is billed at £45m. Pressures on defence spending will con-tinue, but ironically that should guarantee business for any software house that knows how to boost productivity in the military

The battles rage on

The 'virtual battlefield' and simulation offer many advantages over physical war games

The Cold War may have ended, but battles still must be fought and armies trained to fight them. Simulation systems have thus largely escaped defence cuts and the latest simulation technologies allow today's war games to be both

cost-effective and realistic. The simulation market has changed dramatically in recent years as low-cost networked simulators gradually ease out the expensive dedicated simulators that have existed since the 1980s. These traditional simulators aim to faithfully reproduce what you see through the window and the physical movement of the airplane or tank. A high-end flight simulator may cost as much to build as the product it is simulating - but operating costs are much less.

Flight simulators continue to represent the biggest share of the \$10bn worldwide market for military simulation systems, according to US analysts, Frost & Sullivan.

Vehicle and weapons simulators have carved out small niches, but the fastest growing area is mission simulation, including networked simulator systems. These allow war games to be played simultaneously by players in different locations and so simulate battles and wars. By networking together systems representing tanks, weapons and aircraft, armed forces hope to achieve the closest thing possible to real

Many advantages

The "virtual battlefield" offers many advantages over physical war games the traditional way to test strategies and new equipment. "The US Department of Defense is doing less and less physical war-gaming," says Warren Katz, chief operating officer at MAK Technologies, a leading US supplier of simulation software to the

Physical war games are costly, suitable venues are hard to find and they face growing opposition for environmental and political reasons "Friendly fire" casualties and security concerns are further problems.

stand-alone systems that could only be used by one individual or crew and so could not train forces in collaborative tasks. In 1983, the DoD invented a technology, called Distributed Interactive Simulation (DIS), to allow simulations to run on a network of cheaper simulators typically costing \$250,000 each.

In a DIS game there is no central computer and so each simulator has to 'talk' to all the others to ensure they have the up-to-date data on every object's position and speed. Kliminating the central server reduces the time lag between one simulator sending information and the others receiving it.

Realism

This is vital to the realism of the simulation: when one tank simulator fires a shell, enemy tank simulators need to know about it as soon as possible to take avoiding action. One of the features of the DIS protocol is that simulators can "dead reckon" the future position of each simulated ect and this helps reduce network bandwidth - each object typically

needs just 250 bytes a second. Networked simulations involving more than 5,000 objects have been performed in the US. High-speed local area networks and leased lines were traditionally used to link players in DIS war games, but four years ago the DoD created its own intranet, called the Defence Simulation Intranet, to allow players anywhere in the US to take part.

DSI guarantees the bandwidth needed to support a simulation – something the public Internet cannot do. The DoD is investing up to \$500m a year to improve DIS and is now looking ahead to the next generation of modelling and simulation software. To do this, it has proposed a more

advanced technology, called High Level Architecture. This has various advantages over DIS – it will allow several war games to runsimultaneously on the same network,

As with other areas of defence

industry, the simulation industry has not been immune from the shift to cheaper off-the-shelf technologies. "To run DIS before, required engineering workstations but now it

can be done with Pentium-based PCs."

Training systems The US military has started to use

\$1bn by 2000.

personal computer 'arcade game' technology for some simulations, such as close combat. "It's an immersive simulation, but it's not physically realistic in terms of what you see on the screen," says Andrew Maurice, image simulation manager at the UK systems house, Logica. He believes many simulations require greater realism than PC-based technologies can provide.

For example, Logica developed realistic computer-generated images for a training system for a British Army missile launcher. The system replaces the photographs and videos traditionally used to train operators. It contains images for 170 different targets and can simulate different lighting conditions and target

distances. According to Mr Maurice, such systems cannot be replaced by PC technology without sacrificing realism "the level of detail is just too great,"

INTERNATIONAL MARKETS . By Geoffrey Nam

US keen to learn from Israel's experience

Israeli defence contractors excel in developing "dual use" technologies which have both military and civilian uses

war". Israel adopted John F Kennedy's maxim long ago and its IT industry has become a leader in defence technology and finding commercial spin-offs for technologies, designed originally for war. The uneasy peace in the

Middle East ensures Israel's IT companies need never lack defence work or skilled technicians fresh out of military service and trained in the latest technologies. The country has a world-class reputation in areas such as digital signal processing and encryption technology thanks mainly to militaryfunded projects in these fields. But despite the heavy

IT industry is also successful in many commercial markets and has been particularly effective in finding civilian uses for military

in other countries are now trying to embrace "dual use" technologies - those with both military and civilian uses - Israel has been doing it for years. The US is particularly

While defence contractors

keen to learn from Israel's experiences and the two countries have set up a task force to promote Israel's successes with dual-use technolmilitary emphasis, Israel's ogies and find US partners.

One of the leading expo- But it has recently started to nications. nents of dual-use technology is Tadirin, Israel's largest electronics company, which produces telecoms equipment, defence communications, IT and electronic

In 1996, 33 per cent of its \$1.1bn revenues came from the defence sector but the share is dropping - it was 35 per cent in 1995 – as Tadirin seeks out non-defence markets for its products. For example, Tadirin subsidiary Elista Electronic Systems is best-known for its electronic warfare systems and sophisticated jamming technology. expand into non-military markets. In 1996, US firm Qualcomm placed an order worth \$70m with Elisra to use its communications technology

Qualcomm's Trailer-TRACS, a satellite-based vehicle tracking system.

TrailerTRACS allows truck fleet operators to keep track of their trailer units using a satellite network and small terminals mounted inside each trailer. The terminals are made by Elista and based on technology originally developed for

Another Tadirin subsidiary, ATL, is turning its expertise in real-time military software, such as air defence command and control systems, to more peaceful uses. It has developed commercial real-time applications in various areas, including automated guided

vehicles, telephone switch-

ing, automated testing, robotics and vision systems. Tadiran's Tactical Communication division makes radio sets and military computers for Israeli and foreign defence forces. Its technoloresilient battlefield commu- gies too are being adapted to

a variety of civilian uses, for Israeli defence firms. such as intelligent transportation systems, conveyance of containers in seaports and video compression applications. The internet has created a whole new market for the Israeli IT industry and a new Diaspora of militarytrained Israeli technologists who are making their fortunes in California's Silicon Valley.

VocalTec, VDOnet and NetDynamics are just three of a growing number of US software companies founded by Israelis who honed their technological skills during military service or working

VDOnet has used Israeli strengths in encryption, networking and signal process-ing to build a software-only video communications product for the Internet. Last October, Microsoft and phone company US West both bought stakes in VDO-

NetDynamics' Java toolkit allows companies to publish information stored in their legacy databases on corporate intranets. More than 300 companies have adopted the product, and Netscape includes it as a key element in its toolset for developing intranet applications.

Vic Morris, NetDynamics Suropean vice president, believes NetDynamics' product stands out because of its strong security features. which he attributes to the Israeli founders and the country's worldwide reputation for security technology.

The two founders of Internet telephony firm VocalTec started their hi-tech careers doing obligatory military service in Israel and learned to program as a hobby. For

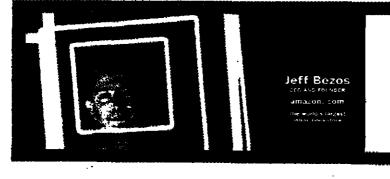
with ways of hausmitting voice over data perworks and in 1995 FocalTec launched its first product. Internet Product, which allows PC users to hold long-distance felephone con versations over the lutern for negligible cost. Many Israelis have enargerated to Silicon Valley and commercially exploit technologies and skills develope working for the military. But the Israeli government is

entrepreneurs to stay home with tax breaks and R&D GEO Interactive Media, for example, is one of several Israeli firms skilled in multimedia technology. Its first product was an aircraft recognition system for the Israeli defence forces, but it has since expanded to offer commercial multimedia

now encouraging would-be

training systems for European and US firms. It has also adapted the technology to the Internet and offers a browser plue-in. called Emblaze, that allows full motion animation at modem speeds of just 14.4 kbits a second.

IT in Israel: a special report by Paul Taylor will appear with the next issue of the several years they dabbled FT-IT Review in May



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Web emphasises the importance of an internationally

agreed approach to security. The consultancy Price Waterhouse estimate that \$500m worth of goods and services were sold over the Web in 1995. While this is currently only a fraction of the total value of credit card sales of about \$500bn, it is a significant and growing part

of the business world.

The trend is expected to accelerate: the US market analysis, Forrester Research, forecasts that the number of business users on the Web will be 14m by the year 2000. Home use is expected to grow even faster with 32m users by the same date.

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MARKET TO SEE

A large part of the increased traffic on the Web will involve financial transactions. The economics are irresistible: CSC Index Research notes in its 1996 report, Rewiring the Enter-prise for the New Information Marketplace, that the Internet has the potential to cut the cost of doing business dramatically. Peter Hill, international director at CSC, observes; "We have calculated that in the US the cost of a typical transaction over a home shopping televi-sion channel is \$3 to \$4, whereas electronic shopping costs over the Internet can be as low as 15 to 20 cents." But this advance can only happen in a secure network-

ing environment: "There are a lot of solutions for improving security - but they are all different and they do not inter-operate with each other," says Dr Michael Waidner, manager IBM's Zurich-based network research group. Dr Waidner is the technology leader on the Secure Electronic Marketplace for

Europe (SEMPRE) project which aims to harmonise approaches to security across Europe. Sponsored by the European Union (EU), the project began in September 1995 and is expected to be completed by September

"We wanted to make a framework where we can integrate all of the different security models and get

The growth of commerce on the Internet Complex barriers to electronic commerce

Directions: in system* security

Here and on the next two pages, FT writers look at the kev issues. including the Year 2000 date problem....

ated a layered model, based a document operate at different levels of security." The first phase of the project aims to create a secure

While technical solutions abound for solving security problems on the Internet, there are still difficult political hurdles to be cleared

interpational borders.

before international agreement on security will open the door to international electronic commerce - "from a technical point of view, security is not a problem. The problem lies in harmon-ising contract law between different countries".

The Organisation for Economic Co-operation and Development (OECD) is also pushing forward with plans for international standards for security in electronic commerce. A set of recomon business documents mendations is expected to be to keep a transaction confi-where you can make parts of published later this month.

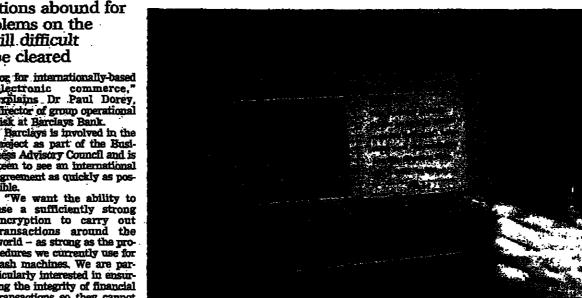
"The plan is to come up with internationally-agreed regulation for cryptography. We need to get it fied down

create a secure channel tog for internationally-based between the retailer and the electronic commerce," purchaser, regardless of explains Dr Paul Dorey,

director of group operational Dr Waldner says that risk at Berclays Bank.
many of the technology Barclays is involved in the problems bane been solved, imaged as part of the Busibut there are political and ness Advisory Council and is social barriers to overcome keen to see an international agreement as quickly as pos-

> use a sufficiently strong encryption to carry out transactions around the world - as strong as the pro-cedures we currently use for cash machines. We are particularly interested in ensuring the integrity of financial transactions so they cannot be interfered with - otherwise the whole system becomes meaningless.

"Often, it is not necessary that it cannot be altered," Dr Dorey adds. The OECD will publish a set of recommen-dations which it hopes will environment for electronic now because lack of agree- be included in individual until later this month, Dr need mechanisms to ensure shopping. The priority is to ment is acting as an inhibi- national legislation - in Dorey says that they will be that someone is who they



Place your orders: electronic shopping over the internet has great potential - there could be 32m home users on the internet by the year 2000, claim analysts. In the US, the cost of typical transaction

led to national Data Protec-tion Acts. Although full actions – "it is not only the details of the recommenda-security of the actual transtions will not be made public action that is important. We

much the same way that its based on the idea of a claim to be and they have Data Protection regulations "trusted third party" to the authority to carry out a transaction. The trusted third party will, in effect, vouch for the parties in a

> This process ensures "nonrepudiation" of transaction, more difficult to resolve."

binding contract. Dr Dorey says that "trusted third parties" will be responsible for auditing electronic systems and procedures to ensure they meet the standard

This is a new dimension for security of electronic systems. It has to be at the same level as running a cash dispenser where you might be required to stand up in a court of law and state that a transaction was authenti-

Further international efforts towards harmonisation of security procedures are also being sponsored by the International Chamber

of Commerce, (ICC). Project B100, scheduled for completion in April 1998, aims to produce a standard for Uniform International Authentication and Certifi-

cation Practices, (UIACP). The ICC has published a paper "to stimulate discus-sion", but as Dr Dorey points out, many of the barriers to international agreement on security have little to do with the technology: "Many of the barriers are political, they are likely to be much

ore than 75 per cent of fraud is committed by LV 1 employees, and computers are not stopping them but actually creating new crime opportunities and helping to perpetrate old favourites.

That view - from Authentec International, a UK company which helps police in computer-related crime investigations, is made all the more worrying by the fact that computer-related fraud has cost UK companies alone £1.2hn in the last two years.

The urgency of adapting systems to handle date calculations after the year 2000 (see reports, next page) has added n extra dimension to the issue.

Europe's biggest IT professional body, the British Computer Society, says companies are side-stepping them to work together," says normal management controls to. Dr Waidner. "We have cre- get work started as quickly as

Beware the Trojan Horse

In efforts to solve the year 2000 date problem, some companies are side-stepping normal management controls to get work started as quickly as possible, say industry observers

possible. It also points out that the year 2000 means companies are having to bring in large numbers of outside staff who are not known to them. This is opening up a risk of insertion of so-called logic bombs into business systems: pieces of code which affect the way programs

Authentec adds that the recent elimination of layers of management means companies bave to rely more than ever on individual integrity, because the remaining managers no longer have time to look at penerwork such as account reports and expenditure authorisations in

detail. However, current employment trends, especially in IT, work against this increased dependence on integrity.
"The emotional contract with

the employer has changed, because people no longer see a job as being for life," says Dr Paul Dorey, director of operational risk at Barclays Bank. "Their motivation now is not loyalty to the employer but to themselves, plus a desire to be professional in their work. We

who are motivated only by money." As well as setting up formal access controls, Barclays aims to

prevent fraud being written into programs by having separate teams work on different parts of a system.

The potential insertion of Trojan horse code is a big issue," Dr Dorey says. "We might have two development teams, for example to separate the validation routines from the payment programs. You can't do this for every system, and you don't need to - although you need to be aware of all the certainly tend not to go for people critical paths: sometimes some

apparently insignificant process could be on a critical path of a Dr Dorey believes the growing

involvement of IT staff with their end-users in the business is creating extra risks - "in the past, the systems people tended to work on the central mainframe

and did not have business

knowledge of the applications systems. But as computing moves more and more to people's desktops, more and more people on both sides understand both IT and the business processes." Even so, he thinks that

interference with programs is a relatively minor risk - and he returns to the integrity issue. "Most security breaches are to do hacking," he says. "Someone who

bas authority to move a file might move it to the printer. We caught one contractor browsing information that was confidential, although he had anthority to access that file in his systems work."

Dr Dorey says automated auditing systems can now monitor who is accessing which files and programs, and the knowledge that these systems are in place is a great deterrent, But much of the risk still has to be reduced at the recruitment stage.

This applies equally to permanent staff, contract staff and service suppliers' employees, and Dr Dorey has seen a considerable change here in recent years.

"All these people are working for us, so all are the same as permanent staff," he says. "We expect external companies to

ands of miles from the open

Continued on page six

Tele-Education

Stay at home and take courses, do research, or work toward a degree, NEC's Global College Concept will expand your opportunities even further. For children NEC created Galdos, the Global Network Class, a website where young people from around the world can



C Multimedia Section 18 Section 18

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Tele-Working

Password problems • By George Black

Computer systems are becoming harder to crack

Access control systems should become easier to use and more secure within the next couple of years

The two big security problems which have troubled many information technology directors are how to effectively authenticate the identity of users and how to reduce the number of password systems in use

Both of these difficulties least in part, by technologi-

Most password systems today do not stringently check the identity of the person applying for access "in fact, the systems in common use are most inse-

cure," says Mr John Hoiland, a director of software company Axent Technologies, which supplies security solutions.

These problems are caused by technical weaknesses of the systems installed and by flaws in the way they are implemented. Many systems do not encrypt the password during the request for access and are thus exposed to interception.

If passwords are hard to remember, people write them on pieces of paper and stick them to their personal computer, for anyone to see. The more passwords people have to remember, the more likely they are to do this.

However, if passwords are too easy to remember, then they are probably easy for anyone to guess. Access is made easier for the intruder often as they should, so replaced by smart cards. their secrecy value dimin-

Passwords used by people who have left the organisation are not changed as quickly as they should be particularly if the employee left in dispute. The increased use of contractors also adds to the complica-

System manager and maintenance engineer passwords are not properly guarded and are often used by people who should not be allowed to do so. Sometimes, not realising the power they have been given, they use it to dire

Up to now, only a few adoption.

organisations to which security is paramount, such as banks, have thought it worthwhile to invest in developing strong authentication systems. The rest have got by with rudimentary security which in many cases has obstructed bona fide users without doing much to keep out unauthorised ones.

However, these problems could soon be overcome in several ways. Card tokens which use a one-time password principle have been used successfully for remote access to corporate systems and could find their way could soon be overcome, at into wider use by office-

> Each access demands a different password which the card can generate on each occasion. This should remove the risk that a password could be re-used to gain illegal access. One-time passwords are expected to become much more preva-

The use of personal identification numbers (PINs),

> High costs still rule out the wide use of biometric systems

generated randomly by card tokens, is replacing passwords in some companies. The main concern that

companies have with adopting such new technology is the high cost, both for the equipment and for its man-

Tokens at present cost around \$50 each, but that price should drop quite rapbecause people do not idly. Experts say that token change their passwords as cards may soon start to be In two to three years.

PLNS could be held on smart cards at a cost of less than \$10 each, predicts Mr Jeff Carr, managing director of access systems supplier

However, Ms Helen Flynn, an analyst at the Gartner Group, doubts whether employers will want system password information to be stored on the same smart card which employees use for personal matters.

Getting applications owners to co-operate over sbaring smart cards to keep costs down could therefore be a barrier to widespread

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High cost is one of the factors which at present rules out biometric identification systems - such as fingerprint or retina scanners - for most users. Also it is doubtful whether people would accept the

But systems designers have not given up on the idea of developing biometric technology which would be both cheap enough and discrete enough to win over the market.

intrusiveness of such

A system which immediately recognised a face or a voice and so did not require a password or PIN, could surely be a winner.

The other big security problem for IT managers is the need for users to sign on separately to several different systems.

An organisation which has computers with several operating systems may have different passwords systems for each and for different applications. The recent spread o

has increased the number. Users sometimes have as many as 50 passwords, according to a Butler Group study. There have been many failed attempts to develop

Microsoft's Windows NT

single sign-on systems, but products of this type are starting to come on the An important question is

whether they can be applied across an entire organisa tion, as many users would like, but Ms Flynn thinks "You won't get one not. product that can handle all the access control requirements enterprise-wide although we have seen some success at reducing the number of password systems in use over the past

six months." Axent's Mr Holland solution would be an enorchances of getting everyone in the organisation to support such an effort are small. It is not realistic to attempt it."

It could take a huge effort just to work out an agreement on which systems each one of many thousands of employees should be allowed to access: deciding who should pay for the controls would be another obstacle. Meanwhile. Mr Holland recommends to his clients that they tackle the

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It's later than you think

The world lacks 'the management will' to tackle the year 2000 computer date problem, says Peter de Jager, a leading authority on the so-called 'millennium bomb' that could potentially cripple many businesses

A established businesses may go bankrupt because of the inability of their computer systems to span the change into the next century - "this will cause a ripple effect through the supply chain and cause a mild recession, putting a huge number of people out of work.

This is "the best-case scenario" painted by Mr Peter de Jager, the internationallyrecognised speaker and consultant who, for six years, has been warning the business world and information systems community of impending problems.

With just 993 days to go before the 20th century ends, analysts have estimated that the cost of defusing the so-called 'millennium bomb' could be \$600bn, absorbing up to 50 per cent of the world's total IT budget from now till the millennium, (see also an FT-IT new year special report on key issues in IT, published January 9,

More than 90 per cent of all computer applications in the world are "incapable of handling the date change because they only record the second two digits of the year," says Mr de Jager. "When '00' enters a two-digit year-field, it causes problems. There is really no debate because it is so easy to demonstrate. The only debate is how difficult it is to fix it."

Examples abound of problems to come. Unum Life Assurance in the US had a business rule that if a policy was not touched for five years, it was removed from the system. In order to do this, the computer system added five years to the date it was last used and compared the result to the current year, deleting the policy

In 1995, 95 plus 5 is 00, that it was this big.' which is less than 95, so curthan 2.000 policies before someone noticed that the income of the organisation was beginning to dry up," says Mr de Jager. "This is the type of problem we can

people to simply believe what he is telling them, but 2000 problem in their organito check their own systems: anywhere you see a twodigit year, type in 00, and watch what happens," he

says.
"In less than a day, they will convince themselves. But what is frustrating after six years is that people are so far 'in denial' that they refuse point blank to do the

In the early days of computing, programmers est, ignored the last two digits in the year in order to save storage costs. This habit has become entrenched, despite the arrival of cheap storage.

he problem this would cause has never been a secret. "Seminars on the issues of the day ignored it, but when we went down to the bar, we would have a grand old time laughing about the Year 2000 problem," recalls Mr de Jager. "People would say things like 'It isn't my problem,' or I won't be with this company then' and 'I'll have retired by then.' Others would say 'We will have replaced the software by then,' which is the biggest myth in the industry."

In 1991, Mr de Jager started speaking out about the problem - "I started to become an annoyance to the industry and I wouldn't go away," he says, adding that he is "not going to go away until we get this problem

t least one per cent of didn't start early enough in established businesses explaining the issues. although he was premature in terms of the willingness of the industry to accept the sage. However, a comneed to check and correct pany that started in 1991 would be in a better position today. Kaiser Pemanente in

> The US Inland Revenue Service is spending \$120m to solve the problem and Nat-West bank has just allocated £100 million, he says. De Jager estimates that 35 per cent of businesses in the US are "active" about the problem, but his concern is with "the 90 per cent of businesses outside the US that continue to ignore this issue...they have their heads stuck in the sand," he

says. "Consultants are out

Force - and £600m for a

US had started early and, as

working on it.

far as he knows, is still

there, banging on doors, but they are getting turned e points out that the Which is doing more UK government, than any other, has allocated ness process £170,000 to its Year 2000 Task

party to celebrate the arrival of the Millennium. "It's ludicrous . . . and absolutely silly," he says. What frustrates him is that "there is nothing technically difficult about the problem and we have the capability to solve it. What we lack is an understanding that this job takes time, that there is a high cost in not completing it – and the deadline is fixed. We seem to lack manage

ment will to get on with it." amount of waste when you millennium? For some organisations, it have to run very, very is definitely too late, he believes. These businesses same place. Embedded processors are have no idea how big their problem is: every company an area where there is a risk Ireland. which has gone into this and looked at it seriously has come back with one single

Unfortunately, 86 per cent. Peter de Jager makes these rent policies were deleted - of all IT projects are deliv-"the program deleted more ered late, or never. Worse still, he points out that mos IT project managers have no experience of managing such big projects.

message - 'I didn't know

"The abysmal percentage of on-time delivery has not been communicated to busi-Mr de Jager does not ask ness managers. Instead, they are being told that the year sation is under control, that it's not as big as the pundits would make out and that IT will have everything ready by the end of 1998."

> Managements are often clueless about the risks and seldom seem to understand that the organisations they manage rest upon a foundation of software code that has an expiry date of Decem ber 31 1999, at the very lat-

> "There is no doubt that the IT profession has a lot to answer for. The IT manager now has to go in the board and say: 'We have been writing programs that cannot handle the year 2000." "The manager's first

response is how could you be this stupid?" "The IT people must then demonstrate that they are indeed that stupid. They must demonstrate, without a shadow of doubt, their incompetence. They must then convince management

that they are the best person

available to solve the prob-The failures are not all going to happen on January 1, 2000 says de Jager, who expects to see an escalating number of errors as we move closer to year 2000, with a sharp increase in 1999.

"If you are going to have a failure, you will prefer it if the system just stops," he says, "because then you can fix it and your data is intact. The worst situation is when Mr de Jager believes he it appears to be working per-

quietly corrupting all your data with an incorrect calculation." Clearly, organisations

the coding of their programs, but there is no guarantee that they will work. "There is this very strang notion that if you put the clock forward to the year 2000 and then run your application that somehow

this demonstrates that your

programs are year-2000 comnatible, but it doesn't prove anything," says de Jager. He advises taking test data and start moving the computer's clock forward, traversing the time between now and year 2000, so that users can see how the data and applications react as 00 information slowly starts percolating its way through

"What proves it is compatible is if your system has got both 99 and 00 data," he says. You must be able go back and forth over the millennium cusp with a busi-

The Millennium Bomb problem was totally avoidable, he says. Every new system could have used fourdigit years, as should extensions to existing systems. Organisations could have had their existing programmers continually working on this the problem. "It is cheaper to do some-

thing at a leisurely pace, not in a frantic rush, with skyrocketing salaries," says de There is a tremendous

quickly just to stay in the



and some have been identified which fall. "We have no idea how big this problem is, broadcast on the year 2000 but it makes us very nervous because we don't like unknown risks."

Mr de Jager has final piece of advice: "Don't be 'gun to testify on year 2000 issues. shy of what this is going to cost. It is going to cost a whole truckload of money but consider the alternative: the question is not how much will this cost to fix? The real question is: 'Do you want to continue doing business in the 21st century?" "If you do, fix your prob-

So where will Mr de Jager be at midnight for the new

"If anybody wants to find me," he says, "I will be in Doolin in West Clare, the best place for music in all of

He was invited before the US House of Representatives' science sub-committee hearings He is also a special adviser to the UK's Year 2000 Taskforce.

He was author of the ground-breaking 'Doomsday 2000' article in Computer world in September, 1993. For more information about the year 2000 problem and users' experience with solutions. visit http://www.year

Leaving nothing to chance: military experts examine year 2000 implications; see report, page 4 ☐ Fixing the problem beware the Trojan Horse: report, page 5

Advice on the Year 2000 problem

suggestions for the hysiness

with the vendor of third party packages, "through legal counsel to ensure that their reply is not trivial".

Identify the problem that has been discovered and find out from the vendor when they expect to be able to deliver their year 2000 version. "Pay very, very close

attention to the response to make sure that systems you depend on to do busine can be used," he says... Find out from the vendor

what exactly they mean when they say their product is year 2000 ready and how to other applications. Ask what, if anything, will it cost for the upgrade. Software applications

written in-house need to be verified by the IT department. If they are found wanting, there are three choices. "You replace those

applications with vendor packages, fix them or you just get rid of them because you didn't need to be running them in the first place. These decisions

should be taken at a very high level." he adds. The third case, which a lot of people ignore, is packages that are used to do other things, such as spreadsheets

'Many of these tools are to some degree or other 'year 2000 ready', but a large number of users will be using them incorrectly. You need to identify the risks in that area."

Executive checklist: Twenty important do's and dont's on the year 2000 issue appeared in the FT-IT Review on

Pitfalls of 'weekend testing'

a leading US computer com- are using it - which frepany says he has a way to allow companies to start testing of conversions and testing their entire computer systems to ensure they are "safe for the next century" using live, day-to-day data, without risk to the company's core business.

According to Michael C. Ruettgers, president and CEO of the \$2bn mainframe storage giant, EMC, his company's large storage systems can offer so much capacity that a corporation's entire system can be duplicated for rear-2000 compliance. Many businesses attempt-

ing to make their computers year-2000 compliant are "getting it wrong", he says. They know the date fields of their software need to be able to have a four-character field for dates, instead of the twocharacter field used on many existing systems which assume that all dates are in the 20th century. But these companies are trying to tackle the problem by chang- with the existing system.

The chief executive officer of ing the system while they quently means "weekend risking many potential sideeffects when they do so.

The problems inherent in

weekend testing are legion. An example is the company that converted all its dates to be able to handle the year 2000 and beyond, then rolled the "system clock" forward and found all its pass-words had been deleted when they came in on Monday morning. This was due to a security.

system that erased old system identities and passwords which had not been used for 18 months. Thus, when the clock was rolled forward to the next millennium, the system assumed all identities and passwords were out-

Ruettgers' solution is to use huge, high-capacity network servers to run a complete copy of the company's computer system in parallel

This allows businesses to test all year 2000 conversions, using that copy of the system with "live" data that can be "mirrored" from the main network without bringing it down or putting data at risk.

means that testing date conversions can now take place all day, every day, giving the companies "a far better chance of meeting their biggest immobile deadline". This argument recently

won over US based Comdisco Disaster Recovery Services, which completed a \$4.8m nurchase of EMC's Symmetrix storage systems in December to help its customers successfully minimise the cost and risks associated with ensuring their computer systems are year-2000 compliant.

The idea is that through Comdisco's customised millennium testing services, clients can test and validate

Continued on facing page

COMPUTER-RELATED CRIME Wider acceptance of security controls

Continued from previous page:

follow a subset of our policies: some companies find they have to set up procedures in the first place, so our policies benefit them. They are . increasingly accepting the need.

"In the past, some companies resented the fact that we wanted to audit their security controls. Today, there's more awareness of tohy we need this, and we, too, are clearer about what we are looking for. Our auditors now make random checks at appropriate levels, depending on the sensitivity of the work." Suppliers endorse Dr Dorey's view

here: "Clients must ask themselves

if the supplier is going to be there for the long term," says Mr David Green, managing director of software company Sapiens. "The last thing we want to do is to jeopardise our client relationship." Sapiens not only interviews

potential recruits and contract staff and takes up references, but also approaches clients of the candidate's former employer for further references when possible. "If they've worked for a big

software company we usually know

people there and can ask them informally." he adds. Unisys has even greater unsupervised access to customer systems and network services. "We stress to staff that things

they might not see as 'confidential' can be extremely so," says director Mike Anderson. "This is not only computer files but also orders for new equipment, which might tell a competitor of a big upgrade or change of direction.

"We have customers in the same business, and each is managed by a separate team; team-bonding is very

"Account managers who talk to the customers about their plans are not linked with the support groups. People in different teams naturally

meet socially, but if they talk about their clients, it's a dismissable offence."

For all the concern, the risk of computer-related fraud or logic bombs in particular is very small,

according to Dr Dorey at Barclays. "It's simpler to use a manual process or steal a credit card than it is to break into a computer system. he says. "Security is just like any other management process, such as quality assurance or

professionally, continually monitored and kept up-to-date." Cyber warfare report: see page two

FIXING THE SYSTEM . By Geoffice Wheelvright

customer-service. It must be done

SEEKING SOLUTIONS • By Geoffrey Wheelwright

A big challenge for mid-tier companies

Only the largest companies can afford top-rate services in an emergency

y now, the world's have generally some idea of how they will tackle the year 2000 computer date

companies that face the big-gest challenge, particularly when they must be year 2000 software a company uses - it compliant for operations connecting with the systems run by the credit card companies, banks and other financial institutions with whom they are increasingly communicating electroni-

At least, that is the theory isations in the UK, US and of Peter Preston, the UK Europe who are resolving sales manager of year 2000 software specialist, Usoft. And he says that unlike large corporations, where fixing it, but came to the much of the year 2000 compliance work is being undertaken via conversion of an option - it is a waste of existing code, "the middle strata of companies must Preston also emphasises

vast amounts of information

on EMC Symmetrix systems

while their computer

systems are made fully com-

pliant. With this latest pur-

chase, Comdisco says that

more than 15 terabytes of

EMC's mainframe and on

"EMC provides the lead-

From facing page:

Testing the system

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Mille beite MINIME TO HELPERE state the artists and the **morel** to one state the

adelies :

really consider completely redeveloping their existing code-base to operate more efficiently".

Merely trying to fix the

year 2000 bugs in an existing system is a costly, zero sum game that ends up costing vast amounts of money, he says. A fix only provides - at best - a system that works as well on January 1, 2000 as it did on December 31, 1999. But it is the middle tier of In other words, fixing existsoftware a company uses - it merely allows that software to survive

For the kind of investment that a bug-fix approach requires, he says, that is simply not an acceptable return. We have a several large to medium-sized organisations in the UK, US and the year 2000 problem via redeveloping," he says. "They have tried to go the route of conclusion that re-engineering existing solutions isn't

secure and high-performance

storage area to test their most critical data while they

engage in the monumental

task of converting their

systems to handle the effect

of the year 2000 date

demand for this approach to

Meanwhile, EMC's Ruett-



that there will not be a second chance for those who delay their decision on which approach to take = and that the path to redevelcoment may be dictated by the fact that there simply are not enough affordable, skilled programmers available to carry out code-fixes on older applications written in the popular languages of yesteryear, (such as Cobol). \ mon

e also suggests many companies are ques of keeping these older applications going - "there's a feeling abroad that the ability to predict the reaction of Cobol applications is vague at the best of times," he

"Yet it is a fixed deadline and there's even a chance in the medium to large-sized companies that the best people will have already been sucked up by the extralarge companies who can information are stored on gers is bullish on the afford to pay to get the people they need in an emer-

open storage systems at the problem. "The market Comdisco's disaster recovery opportunity presented by the and testing facilities world-millennium crisis is huge. Industry analysts predict to fix the so-called 'millenthat more than \$600bn will nium bugs', by hiring Cobol ing-edge storage technology be spent worldwide on techprogrammers, only get threethat our customers need to nology and services to conquarters of the way through in terms of capacity. manage any downtime or vert computer systems. Busi- a project and run out of

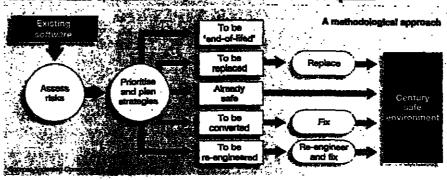
While he admits that redesigning is not an option for every business - and particularly not for those which cannot afford having any system 'down-time' while their systems are being redeveloped - it can, however, provide a platform for growth, rather than being an irritating, although unavoidable, waste of time and

"The perspective our customers have taken is that through the use of business tioning the wisdom rules - and an effort to highlight the organisation of them to assist change within the company - we can help the company grow and, just as a side-effect, remove the Year 2000 problem," he says. "It's a positive stance, rather than a protective one."

Large organisations do not often have much spare capacity on their systems to test re-engineered versions of their systems. "This means there is not a

lot of warning if it doesn't work." says Preston. "And very large organisations that "You will see situations can't allow down-time don't where people who are trying have a lot of choice: they have spent so long rightsizing that they have rightsized themselves into a hole.

"But the organisations unexpected crisis," explains nesses are expected to resources. It puts the risk underneath those whose David Nolan, president of augment their existing stor- profile of re-engineering core systems are running on the mainframe can afford to



Defusing the millennium bomb

Lamentably few organis- the problem, 76 per cent conations in the UK - only eight sider it to be 'critical or seriper cent - have so far conducted a full audit in preparations for defusing the 'mil- costs involved and 52 per lennium bomb', according to a joint report by the Computing Services and Software Association, the Cen-Telecommunications Agency, the Department of arises from a deceptively Trade and Industry and PA simple issue, but incorrect

managers are fully aware of unable to process orders,

guesses, says the report. Meanwhile, only 15 per cent of senior managers are fully Computer and aware of the problem. "The millennium problem

ous', although 89 per cent

cannot even guess at the

cent have made rough

While 70 per cent of IT strophic for businesses clare fortune @ pa-consult-

despatch invoices, calculate payments and process transactions," says the report. For more details, contact Keith Ireland at the CCTA, (web site: http://www. open oon ukiccinhome.htmh): or Ray Brown at the DTI on e-mail: ray.brownet@dtied. dti.gov.uk; also Nicki Blink-

horn. CSSA, e-mail: cssa@ cssa.co.uk; or Clare Fortune at PA Consulting, e-mail:

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is this Friday, April 4.

The prestigious awards by the Open Group, sponsored by ICL and Siemens Nixdorf, in association with the FT-IT Raview, will take place in Paris on June 12.

For details of the award cale-gories, contact Marie-France Settings, marketing co-ordinator in Brussels on telephone +\$2.2 772 88 85; fex +32.2.772 9298; or

Universe 97's site on the World

Ways to win competitive advantage in a networked business world

receive an update on ways to win competitive advantage in the networked world at this month's InterForum '97 in London. Speakers at the one-day symposium on Monday April 14, include:

☐ Bob Dies of IBM's network division and a member of IBM's worldwide management council and board of directors. ☐ Andrew Boswell, ICL's group technical director and chairman of the UK Information Infrastructure

Task Force. Paul Maritz, Microsoft's group vice president for applications and systems. Mr Maritz oversees the divisions contributing to Windows, the Internet and consumer productivity

Suite and Front Page. ☐ Dr John Crecine, a creative leader in computing and chairman of Virtual University International. ☐ Martyn Lambert, Sun Microsystems (UK), director

of marketing and technologies. He heads a key Sun group, focusing on the demands of busines looking to lever the commercial advantages of network-centric computing. ☐ Ronald Heinz, Novel's senior vice president, worldwide sales, heading a team of 1,500 sales executives; key markets include government and education, plus enterprise

solutions. Denis Aull, Lucent Technologies' Internet communications husiness

☐ Joseph De Feo, president and chief executive of the Open Group; widely regarded as a world figure in IT operations. For seven years he led the IT and operations strategy for the Barclays Group:

Venue The symposium at the Queen Elizabeth II Conference Centre in Westminster is organised by InterForum (a not-for-profit organisation, open to both vendors and users alike), in essociation with the Financial Times.

The event chairman will be Peter Martin. international editor of the Financial Times. FT-TV will be covering the event. Philip Flaxton, executive

director of InterForum says

symposium will build on the success of the 1996 event which attracted speakers such as Oracle's Larry Ellison and BT's Sir Peter Bonfield. InterForum is the advisory organisation that educates and supports UK Plc on the business value of the networked world."

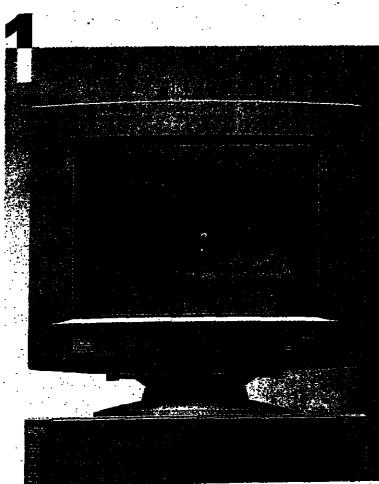
this year's "visionary

Delegates to InterForum 97 receive automatic entry to Intranet Expo 97 management seminars at London's Olympia 2 on April 15-165.

[7] For further information on the London symposium. call InterForum in the IJK on 0181 382 0446 (fax 0181 332 0448).

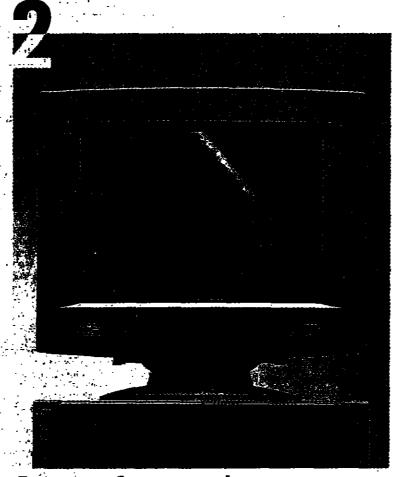
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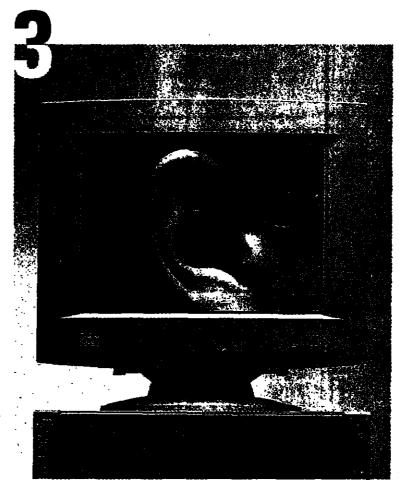
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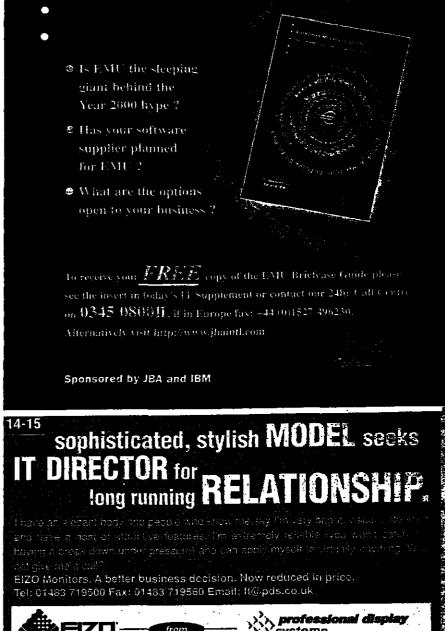


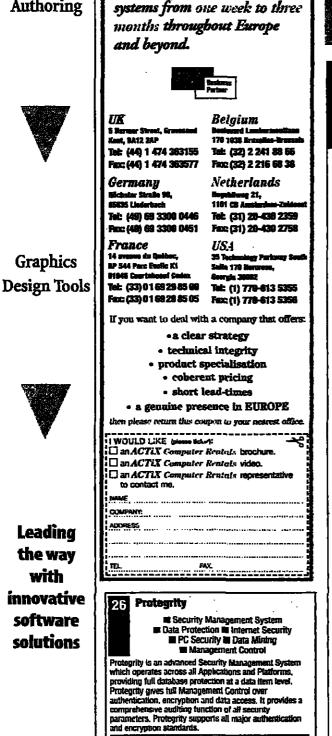
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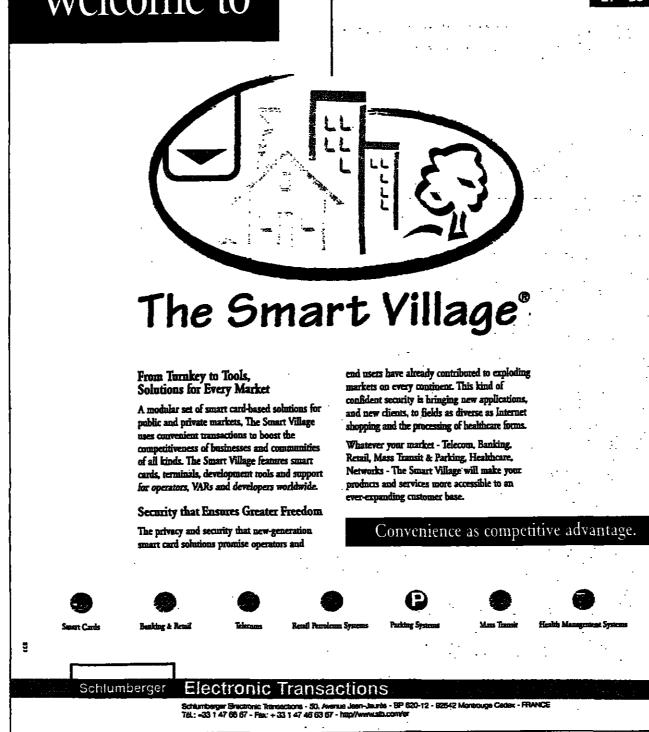
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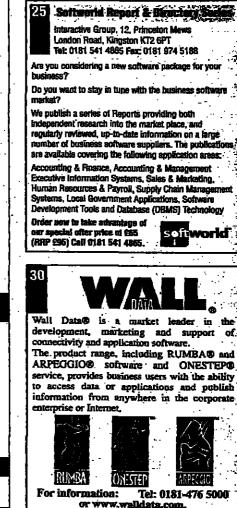
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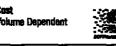
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internet 1-2 3,17 9,10

FT-IT DIRECTORY INDEX Integration Technology 14 31,32 Internet/Intranet Security 4-5 IT Consultancy, Testing & R&D 15, 20, 25, 30 IT Consulting inc. Year 2000 28, 29 22, 23 Messaging Solutions 6 13 16 24 Network Connectivity 18 21 Software Development 19 Software Development Maintenance 26 12 Year 2000 Projects

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groupware is not only dead, it should never

have existed. It has effectively merged with the intra-net, although the intranet world has not realised it yet. Groupware should never

have existed as a separate category of software, because all software should enable people to work

When Doug Englebart invented the personal com-puter at Stanford Research Institute in the 1960s, "he designed it to allow people to work together and share information across a network through a mainframe computer," says Professor Clive Holtham, Bull Information Systems' professor of information systems at London's City University Business School - "however, IBM launched a PC and this set the industry back 20 years."

Users, frustrated at their inability to get what they



Software at work

wanted from inflexible mainframe systems, used their PCs in stand-alone mode. utilising personal productivity tools, which never actually delivered measurable productivity gains.

Once networks had been developed, the term 'groupware' to describe software designed to let users work together and share information through computers, had to be invented to distinguish it from the damaging concept of stand-alone comput-

ing.
"In the absence of a net-

Groupware is dead, long live the intranet

their Lotus Notes software.

which created an entire

Notes industry. Lotus has

completely rewritten it to

utilise Internet standards

and, in a controversial mar-

Domino.

Holtham.

keting move, renamed it

The name Notes now

refers to the traditional pro-

prietary client. Lotus was

quickly able to claim, quite

justifiably, that Domino is

the best solution for intra-

nets. All the other group-

ware products, such as Nov-

ell's Groupwise, ICL's TeamWare, Microsoft Excange and Staffware have

InterOffice Suite and Net-

scape, which had already

purchased the Collabra

The vital concept of better communications in business is gaining new impetus from intranets, or private networks

work-centric PC, groupware as with groupware, in that had to be invented," says everybody is doing their own had to be invented," says

Prof Holtham. Groupware technology has been widely used to enable people to communicate, to share information, to gather information, to work together and, most importantly, to carry out business processes and execute transactions, often using unstructured data.

All of this was done, not just between people in a group, but between groups and enterprises.

In the process, a number of cultural issues were identified which had to be addressed before any benefits could accrue. Now that the corporate intranet has arrived, the FT vendors have implemented the new technology internally very much in the way that groupware was deployed and for the same purposes.

However, now that it is spreading like wildfire through the corporate world, it is getting hijacked by both users and employee communications professionals. They are turning it into a publishing medium, ignoring the more powerful uses of an intranet, which require a knowledgeable and innovative central group to co-ordi-

nate and promote it. Interestingly, these new enthusiasts are not aware that they are using group-ware principles, yet they are identifying all the familiar cultural problems as if for the first time.

"People don't understand the power and the benefits of the intranet," says Mr Jack Mark, managing director of Unipower Systems, a consultancy specialising in groupware and intranet applications, (http://www. unipou-

er.co.uk) "The same problem arises through information shar- intranets rests on the value of

nical director at Sema, the computer services group.

the turmoil and will be thing because it is so easy to develop. The power only weak groupware engines will nities. die and be replaced by new begins to be felt when it is entrants who will attempt to properly launched enter-prise-wide, whether it is redefine the concept, but will probably fail to do so, groupware or the intranet." because changing the tech-Lotus effectively defined nology does not change the the groupware market with

One of the reasons why Lotus Notes was able to dominate the old groupware market was its unique embedded flat file database which could handle unstructured data.

Now the "universal server" object-relational databases are becoming available, these should be net applications, including net access to Staffware organisation and its custom- the company that delivers

ing," says Mr Mel Earp, tech- Domino. There is only rudimentary groupware available on the external Inter-"The strong groupware net, but Oracle has plans engines will survive through with its InterOffice product and is working with telecomstronger as a result of an munications companies to improved foundation. The make it available to commumunications companies to

> Once we get electronic mail and billing implemented, we'll look at shared folders and conferencing for clubs and societies," says Richard Grogan-Crane, groupware marketing manager for Europe, Africa and the Middle East at Oracle. The established workflow

> vendors, with their focus on business processes and transaction processing, are well-positioned to benefit from the intranet.

Sparbanken Sverige AB, one of the top three banks in Sweden, is in the process of comes from the quality of used as a data store in intragiving its 11.500 staff Intrathe collaboration between an



sor Holtham: 'Groupware had to be invented

(http://www.staffware.com) applications using Java cli-

"Competitive advantage

ers and suppliers, not the act of collaboration itself," says Jeremy Renwick, UK marketing manager for ICL's TeamWare Group. The winner will not be

better technology, but the one that helps organisations to improve their business

Mr Earp agrees: "The IT. industry will one day mature to focus on the real issue, which is delivering benefit to users, rather than contin-ually focussing on internal matters, such as which 'protocol stack' to use."

Embracing the intranet is the best thing to have hap-pened to groupware. It has given the vital concept of working together a new impetus. At the same time. Intranet developers can learn from a very large established body of knowledge on the use of groupware, especially how To change culture in order h get better business processes and generate competitive

The UK government has just completed a three-year study into collaborative working for competitive advantage. Seven groups of academics, consultants and business people evaluated more than 400 software tools. Gerth Shepherd co-ordinated the programme and has concluded: "It isn't fechnology, but business purpose, which brings competitive advantage."

BUTHLANET BENEFITS . By George Black The promise of high returns

also adopted Internet stan-New competition has come Despite managers' scepticism about new IT systems, intranets can deliver rapid cost-savings from intranet-based Oracle

ntranets, or private internets, could deliver a spectacularly high return on a fairly small

groupware product and has investment in a very short time. built Internet standards into This is the message which the computer industry is now trying to "Our experience is that get over to its corporate customers. They are understandably sceptical, corporate users prefer intehaving heard such promises from grated solutions that work, rather than assembling 15 information technology managers many times over the past 30 years and usually been disappointed.

different tools from public domain sites," says Professor This time, however, there are some reasons for thinking that the "To date, it has proved easier for traditional grouppromises could be fulfilled. ware suppliers to migrate to Experts are divided on the issue. intranet rather than new Gartner Group warns that the intranet suppliers to learn majority of infranet projects are likely to fail to meet the business

how groups work." The current fashion for case on which they are based. the intranet "is yet another It urges users to be cautious and 'drains up' exercise which test the water before they plunge in, rips out the underlying founstarting with small projects to dation, but in no way alters augment rather than replace the principle of efficiency existing systems. The best case for

simple Web publishing, it says. However, a more bullish survey by Romtec and Durlacher has found that some companies are getting 1.000 per cent returns on their investments. International Data Corporation (IDC) found even higher returns in its analysis of intranets built on Netscape software, with a

payback in six to 12 weeks. Ms Kay Wesley, an intranet specialist at financial systems vendor Hyperion Software, says Gartner is too timid: "Intranet systems can be established more cheaply and easily than Gartner says and can deliver benefit in a few weeks," she says.

For companies which already have networks, most of the cost of an intranet is in staff time to set up the system. That can often be quite a small cost as intranet projects are

not typically labour-intensive. But the benefits can be very large, as some UK users are starting to

find out, Some leading companies say they are saving several hundred million pounds even in the first year of intranet usage. A substantial part ever deliver." of this saving is said to come from the elimination of storage, printing

are made available to staff online. Another benefit is that documents which are online are much more widely used than those which are kept on shelves, so there are improvements in productivity and efficiency as well as cost savings. London Underground says it will

and distribution of documents which

get a return on its intranet investment - up to now only £70,000 in just a few months. Two regular publications giving instructions to staff which cost around £500,000 a year to publish are soon to be cut

"Management still cannot believe that the intranet will deliver what we promised," says Mr Alec Bruty, the consultant who is running the

programme. "The only way to convince them is just to do it because they don't believe IT can

The number of users of the London Underground intranet is likely to increase from 1,000 to 4,500 within a few months. The return on investment should start to flow as the volume of publications is reduced

Mr Bruty plans to add many other large documents such as the company information handbook, the group finance manual, the incident management system and the IT handbook. Not only will much more information become available to staff more easily but it should also

be more up-to-date. Users will have access to these documents, stored in HTML (Hypertext Mark-up Language),

through Microsoft's internet Continued on facing page

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Solutions for a small planet

Why intranets are catching on

Intranets will be a \$50bn market worldwide by the end of 2000

ne of the biggest parate sites so that employusers of intranets is the Swiss Bank Cor-poration. In fact it has so many - around a 100 - that it has just appointed a head of intranets to co-ordinate

(PRH 2 166)

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All in take IT can

Intranets take advantage of low-cost internet technology such as Web browsers software for searching the Internet and viewing information - to improve internal communications.

Sometimes intranet sites are linked using the public Internet network. But the information on them can still be restricted to company employees. Sometimes sites are linked using a company's own data network. At Swiss Bank Corporation, owner of SBC Warburg, intranets are used for:

□ Corporate accounting and credit information. Publishing research internally, and to a select group of 50 external clients. ☐ Trading information. □ Ordering information

technology equipment. ☐ IT project management. ☐ Informing staff of regulatory changes.

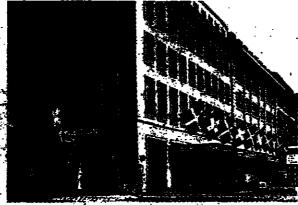
The job of Marie Adee, the company's new head of

ees can find information easily. The sites will also be given a common look and feel. All the company's sites can be searched using the Netscape Navigator Web browser, but the company is Domino software.

This software will sit on the server computers that store the intranet information. Domino incorporates Lotus Notes informationsharing software. So einployees will be able to input information to Web sites either through Notes or through their Web browsers. It will also be possible for SBC to set up workflow applications - which control the flow of work between

According to Mark Robertson, managing director of Blue Curve, an Internet consultancy working with SBC on the project: "SBC is using intranets because they offer a very low-cost architecture for information sharing and increase the timeliness of information.

"Previously, credit policy information was going out-of-date as soon as it hit Airways, KLM, Boeing, Pratt net. the user's desk," he says.



cheaper to make information available via an intranet than it is to print it.

Airline network Sita's For example, British Airintranet is also saving money for users in the aviation industry. Airlines and aerospace companies can cut costs by replacing interna-tional leased lines with a single connection to Sita's AeroNet Intranet. This can be accessed from 500 cities in 100 countries.

& Whitney and Rolls Royce

be made from intranets. tised information from man-Robertson says that it is, ufacturers. This is faster and cheaper than getting the same information on paper or microfilm.

> ways uses AeroNet to get aircraft engineering drawings, manuals and so on. direct from a Boeing data-Manufacturers of air-

frames or engines can also save time and money by exchanging large computer aided design/computer aid The 30 or so airlines and manufacturing files with a aerospace companies belong. range of suppliers over the ing to it — including British; aviation community Intra-

Setting up a Web site for There are also savings to - can use it to access digi- intranet use is not expen-

sive. Norwich Union's Microsoft-based intranet solution includes a lot of free software and has not required a dedicated project team.

Digital Equipment sells a self-build Web server packge (also available from its intranet partner BT), including an intel or Alpha-based computer, a Digital Altavista firewall (to keep out hackers), some consultancy and some Microsoft software

at a starting price of £8,000. This will enable a company to build a Web site that can be accessed by an unlimited number of employees. A second package including the same ingredients but extra security starts at £10,000.

However, the real price of an intranet is in the running costs: the time it takes to keep information up to date and to manage the network. Roger Whitehead, director of the Office Futures consultancy, says: "As more and more people begin to use an Intranet, it can become ungovernable. Users don't know what's on there or how to find it. So they either narrow their focus, or give up.

"One of the first tasks facing any company is to decide who can put information on the intranet, who guarantees its quality, and how it should be organised," says

When faced with this problem, US workstation company Silicon Graphics created the Silicon Junction Web site, that is the central point of its intranet. So users always know that they can go there to get a list of all the company's other sites.

"Their approach is 'to let a 1,000 flowers bloom', but organise the intranet so that you can find the different species," says Whitehead. "Another way of simplify-

ing the management of an intranetis to put Lotus Notes at the back of it, and it will organise all the information and the links to different applications," he says. "Setting up a simple intranet is cheap and easy, but once ss argument is less

has a long way to go The potential of

Java is impressive, but its strengths remain to be proven in practice

> ava is the language of the future but not of the present, according to a worldwide survey of intranet developments by the Xephon consultancy. The survey found little evidence that users were adopting Java, the object-oriented programming language

promoted by Sun Microsystems, for developing corporate systems running on their private Internets.

The language, which was launched by Sun in May 1995, has in the past couple of years generated a volume of publicity unprecedented for any new computer language.
It seemed to industry

insiders to be capable of turning the Internet from a clever toy into a serious huginess.

It was acclaimed as the enswer to systems designers' prayers, offering re-usability and portability of code to an extent never achieved before – a big step beyond the extremely successful C++ language, from which it derives.

It would allow users to have cut-down personal computers ('network computers' or 'thin clients') on their desks, on to which they could download applications from an Internet or intranet server whenever they were

Software could be updated by downloading through a browser tool only the parts of the application which had changed since

■ New competition in association with 3Com, the computer networking company

applications, software modules, or components. Distribution of software would thereby be revolutionised.

Wide-scale adoption

JANA COMPLETE LANGUAGE. By George Black

This approach if successful could force many software companies to re-think their product strategies radically. It could threaten Microsoft's dominance of the operating system market, since it would make the browser

the most important element of the desktop system. Microsoft plays down its importance. Its Internet tools product manager Mr Mike Pryke-Smith says: "Java is a useful language, but we don't see it as the

only one for intranets." Java is also a big challenge to applications developers, especially opers of groupware and workflow systems

Most of the enthusiasm has come from suppliers

which could be threatened by intranets running Java applets. Many of them are now scurrying to re-design their products using Java. The potential of Java is impressive, but its strengths remain to be proven in practice. How important a force in IT it will become is still hard to

Most of the wave of enthusiasm for the language has so far come from the supply side, as the leading supplier companies rush to show that they are abreast of the latest technology.

Leading tools developers. such as Netscape and Lotus Development, have been keen to emphasise their commitment to using the language. Netscape plans to give away Java applications new market in the same

There is no question that Java is an important breakthrough," says Mr Eric Broussard, Neiscape's marketing manager for Europe, "but it will take time for a lot of companies

to adopt it." Lotus has retrained hundreds of its staff to be able to cope with Java and plans to recruit more. Its parent company IBM is spending several hundred million dollars on Java

But although users say they favour Java over all other options for intranet development, few of them seem to have taken the idea very far. Some analysts had forecast widespread adoption of Java during 1997, but they may be

Many users appear to be doubtful about whether it is yet mature enough to tackle

"Our survey suggests that use of the intranet for Java application is still some way off," says Xephon's search director Mr Mark Lillycrop, "There is not much of this kind going

The immaturity of Java tools and the scarcity of expertise in designing and developing applications in the language are holding up its progress with users despite a lot of interest in it he savs.

Creating an intranet is not a particularly hard job, but exploiting it to the full is a much bigger challenge At present, intranets are generally being used for much less ambitious projects than Java mplications could deliver.

The typical use of current intranets is for distributing information across a company, extending the existing email and groupware systems, the Xephon survey found.

Turn to back page

New business advantages emerge

Continued from facing page

Explorer browser software. Intranets, if they work, certainly seem to change the timescale for return on investment dramatically, typically from four or five years for previous generations of IT to a year or two at most.

Many of the benefits will be "soft" or less-easily quantified. For example, easier access to corporate information systems should open the way to much more flexible working patterns.

Being in the office will no longer be necessary for many purposes. Office spa can therefore be saved by sharing desks and the

amount of travelling time can be reduced.

Another soft benefit is staff morale. Keeping staff informed can contribute a lot to team spirit. If staff hear a rumour of a management decision affecting their future, which is confirmed several days. later by a typed memo, they may be demotivated.

An intranet message from the chief executive's office could reach them only a few minutes after the decision is Intranet systems vendors are now starting to focus on

such aspects of corporate culture in an effort to persuade doubtful managers of the many potential advantages of the technology.

turn out to deliver very cheaply the benefits which all the billions invested in IT for 30 years have failed to give, then the implications for international competitiveness will be SELIOUS:

Meanwhile, Mr Andy Grove, chief executive of Intel, and Mr Richard Thoman, chief finance officer of IBM, have both said that Europe may be damaged by lagging behind the US in its adoption of new technology.

not adopting e-mail and Internet technology fast

enough, they argue. The provides evidence to support their case. Only 13 per cent of the top 1,000 UK companies have so far installed intranets, against 63 per cent of large US companies, it found. The reason was that UK managements did not see the

technology. Other studies also suggest that top managers in the UK are neither IT users nor IT enthusiasts. The UK therefore seems to need 'an army of Mr Brutys' to work on their managers and show which will persuade them to

change their attitudes.

Marie Contract

potential benefits of the

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Your chance to join the **Boston FT Party**

A memorable prize trip to Boston, Massachusetts, in June

A seven-day trip for two to Boston in the US, with excellent hotel accommodation, spending money - and a yacht trip - forms the prize package being offered to FT readers in a new competition aunched today in association with 3Com, the computer

networking company. Boston, in early June, will be the scene of big celebrations as the latest port-of-call for the BT Global Challenge yacht race as the vessels arrive after weeks in inhospitable conditions on the

The winner of the Boston FT Party competition - plus his or her guest - will have a chance to meet the yacht crews and make a

four-hour trip on the 3Com yacht. The prize-winner and guest will fly to Boston on June 24 and return on June 30, having spent seven days (six nights) relaxing in

The winner and guest will be met by FT journalist Richard Donkin, one of many people drawn from all walks of life who have taken part in the Giobal Challenge. He recently spent 43 often stormy days salling from Rio de Janeiro in Brazil to Wellington in New Zealand as a crewman on the 3Com yacht.

To enter the competition, readers simply	need to answer the following 12 que
A corporate way of saying 'computer communication compatability'	3
A shower-proof Challenge port?	С
This Challenge boat could be mistaken for a sea dog.	0
Pioneering explorer who gave his name to South American straits.	M

5. He sits in Equatorial judgment when crossing the 6. Missives on the Internet?

7. This challenge boat waits for no man.

8. A place on the Internet to spin a spider's trap? 9. This whale is sometimes called a killer.

10 The ship that carried Cpt James Cook an his second and third voyages of discovery A1. County for a Royal Challenge sailor?

12 Rigging for covering corpses The closing date is April 21, 1997 Fex no: 0181 780 0078

The FT/3Com Boston Competition

Ruther: this competition is not open to the staff (and their families) of the FT group, 3Corn or BT. Postel or ferred replies do not constitute proof of entry in this prize draw; the winning entry will be drawn on April 25 and anniousned in the May 7 lease of the FT-TT Review; names of winners will be available upon application after April 26, but no correspondence will be intended into: the judges decision is final, No cash alternative will be offered. Box the box # you do not wish to receive offi

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	The first letters of the answers combine to spell out the phrase SCom Networks. The answers to many of these questions could be gleaned from viewing the BT Global Challenge web site: www.btchallenge.com
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Unrule 'Competition in world markets is bringing the subject of

Customer-service is crucial Since he took over in 1990 as chairman and chief executive of Uni-

The first step in unlocking the value of information technology is to listen and understand what the client really wants, says James Unruh, who also sees the growth of the Internet as 'a huge services opportunity'

"becomes a critical part of

with clients to help them raise their levels of quality, "to the point where quality as a differentiator becomes more of a question what hap pens if you don't have it."
Instead, he argues that companies need to focus on customer-service and creating value for their customers. "As I look at it, that Unruh argues this objecbrings the subject of information management right squarely to the centre," he

> The Unisys chief executive argues that the first step towards creating value for a client is to listen and understand what the customer wants - "most of us do not listen well to what our clients tell us". For example, he says companies often fail to recognise how valuable complaints are: "We think of them as irritations, some-

But in most industries.

product life-cycles are so

short that you really cannot

have a sustainable competi-

tive differentiation on that

At the same time, he argues that in order to com-

pete with Japanese manufac-

turers, both US and Euro-

pean companies have had to

thing we have to deal with." best single place to find out what customers want and what they value, is by analysing a company's own data. "Transactions disclose

customers preferences, how they do business, what they software from some other source, sometimes it's a cusdo, how they buy, what they tom development with a clibuy, and so on," he says. Unlocking those insights ent - it all depends on the situation," says Umruh. The final step, he adds, is providthrough techniques such as ing "life-cycle support serdata-mining and then making the results available to vices" such as traditional those making decisions and maintenance work, helpthe people who are actually desks or outsourcing serdealing with customers,

sharp change from the group's original box-pushing information management," savs Unruh. In terms of Unisys itself, business. "Five years ago we Unruh says the company were a mainframe computer reached the conclusion that company, the business and while technology itself was economic essence of the "a very critical thing, and no company was to sell a mainless critical than it ever was, frame computer and take the it is no longer anything like maintenance contract. In sufficient to really work hindsight, it sounds like a with a client and create fairly simple business." value.

Beginning in 1992, he says, So, he says Unisys typi-cally begins work with a cli-"we began to create a different company, not abandonent "with an involvement at ing our technology business. the level of information planbut to go well beyond it." ning-type consulting." The Unisys completed the second step is systems interestructuring process at the gration work - sometimes it beginning of 1996, adopting is selling a standard applicawhat Unruh describes as tion, sometimes it's using "the 'three businesses-one

company structure". "Going back to the beginning of the process, there sys has been strong in the was never any doubt in my financial services and govmind that I was going to move us to a business-based organisational structure, rather than a function-based organisational structure," he says. "But it took time to develop the businesses to the point where one could really

He says the restructuring helped accelerate the transformation of the group, because underneath the covers of whatever gross rev-As Unruh notes, this is a enues we have, we are building 'a new automobile'. The old traditional [mainframe] business is declining and will continue to decline," he says, but nevertheless emphasises that there will be a continuing requirement

do that."

for 'enterprise servers.' "It is going to be a smaller marketplace and those enterprise servers are going to look different, they already do," he says. "It is a very good business, but you don't invest in it as if it were a growth busines

The growth opportunities that Unisys has targeted include the IT consulting and computer services busies, including IT outsourcing. "Companies, including those in the computer industry, tended to be completely integrated vertical companies, doing all kinds of functions," says Unruh. "What is happening is that increasingly organisations are determining what their specialities are, what their core competencies are and the areas in which they add value.'

Outside of these areas, operations such as building, maintaining and operating complex computer networks are being outsourced to IT specialists, such as Unisys, Unruh rejects suggestions that outsourcing will turn out to be a temporary fad, but he does accept that some outsourced business will be taken back in-bouse - "the trend will go to the extreme and then come back into some kind of balance," he

cing market. Unisys is tar- mated the impact of new geting several specific verti-technology in the near-term cal markets for growth. "In a - and at the same time, vertical market sense, I view almost without exception, the business increasingly as under-estimated the impact a grouping of segmented markets or niches that one

inant or leading provider," he says. Traditionally, Uniernment sectors. "I think there might be some debate as to which segment of financial services could exhibit the fastest growth in IT over the next few years, says Unruh. "When I look at the gap to be closed - from where they are to where they need to be - then it's

n agrees

the insurance sector that really has a lot to catch-up. "But the financial services industry is in a huge transltion, so there is a lot of growth and their products are all information-based products.*

Similarly, in the public sector he notes that "while the money is going to be in

> 'The financial services industry is in the midst of a huge transition

shorter supply, the need is even greater to apply technology to try and cope with the overall cost-problem of providing services".

Other attractive markets include the communications industry: "The areas to go for are those in chaos," says Unruh. "And I think we are just peering over the edge into the chaotic period of the communications industry. A lot has already happened, but there is a lot to go. Deregulation is really only just beginning, so there is going to be a lot of opportunity in that industry to help them with their issues."

Along with most other companies in the IT sector, Unisys also sees the growth of the Internet and Internet technologies as "a huge services opportunity".

"The history of new tech nology in our industry has two strikingly consistent things about it," says Unruh. Aside from the IT outsour- without exception, over-estiof it in the long-term. I think the Internet fits squarely in plays in, or tries to be a dom- this category."

BUSINESS WE HAD TO OVERCOME NUMEROUS JECHNOLOGICAL HURDLES NOSEY PEOPLE FOR EXAMPLE.

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It is a scientific fact that people are nosey and the thing they want to see the most is the thing least want them to see. This explains why the Heb is full of stuff that is so unimportant that it doesn't matter if everybody sees it. Stuff like UFO chat lines, pictures of dead rock stars and short stories that pobody would publish on real paper.

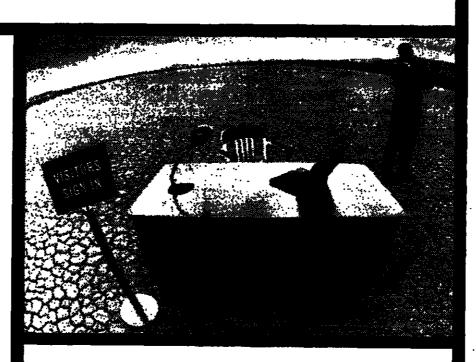
True, there is some business stuff. But it's mostly 'brochureware,' general information aimed at the broadest audience and, therefore, not terribly critical This is because, in technological terms, security is lousy.

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SOFTWARE AT WORK

Java applets are 'some way off'

From previous page:

Mr Lillycrop also sees a potentially serious problem in developing Java applications which are both re-usable and maintainable, especially if its use is combined with that of a less pliant lan-

guage such as C. "If you put C or C++ programmers on to writing Java you may end up with code which is a hybrid and will be very hard to manage," he

Nonetheless, Mr Lillycrop along with most other analysts, thinks that Java is the language of the future and sees no alternative on the horizon for intranet develop-

"It will just take time for people to re-adjust to it and gain the skills to make use of it," he says.

Re-training staff to be able to write Java programs will be a time-consuming and

Recruitment of people with the aptitude for Java programming will be very hard in the next few years as companies compete for scarce skills to deal with the year 2000 date-change problems and the expected launch of European Economic and Monetary Union (Emu).

There are already signs that new development projects such as building intranets are being postponed while users concentrate on those more urgent tasks. Some companies are said to be freezing all new develop-

ment until they are solved. This could delay the mass exploitation of Java for the intranet for several years.

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FAX MACHINES

FINANCIAL TIMES COMPANIES & MARKETS

Wednesday April 2 1997



IN BRIEF

Monsanto agrees Calgene purchase

Monsanto, the St Louis-based chemical and life sciences company, said it had agreed with Calgene to acquire the remaining shares of the California-based biotechnology pioneer for \$8 per share. Page 19

Energy Africa seeks black investors Energy Africa, sub-Saharan Africa's only private sector oil and gas exploration company. wants to attract more black empowerment groups to its shareholder register. Page 18

NCB in wide-ranging overhau! Nippon Credit Bank, one of Japan's top 20 banks, announced a restructuring that includes withdrawal from overseas operations and staff cuts of more than 20 per cent. Page 21

Trafficmaster extends to Germany Trafficmaster, the traffic information provider, will today announce it is extending its system to Germany in an agreement with Mannesmann Autocom, the German telecommunications group. Page 23

Grupo Torras out of receivership Grupo Torras, the ill-fated holding company set up in Madrid by the Kuwait Investment Office, has emerged from receivership. Page 18

Panel backs ANZ in Indian bank row Australia and New Zealand Banking group (ANZ) said it could book a large abnormal gain after an Indian arbitration panel ruled in its favour in the company's dispute with India's National Housing Bank. Page 21

Dexia 1996 net income up 10% Dexia, the Franco-Belgian banking group, announced net income up 10 per cent to FFτ3.2bn (\$569m) for 1996. Page 20

Kroil agrees to takeover by Equifax Kroll Associates, the best-known operator in the world of corporate gumshoes, announced that it had agreed to be taken over by Equifax, an Atlanta-based credit-checking company. Page 19

Brazil's Varig reports losses of R\$64m Varig, the Brazilian airline, released headline figures showing losses of R\$64m (US\$60.4m) last year after losses of R\$7m in 1995. Page 19

16 Lane Crawford

2 Liggett 3 Lockheed Martin

21 Lauritzen Holding

1 Lyonnaise des Eaux

16 Mannesmann Autocom

23 Marks and Spencer

16 McDonnell Douglas

Nat Housing Bank

National Provident

O&Y Properties

PTT Netherlands

Pacific Concord

Prudential Corp

Robert Fleming

Royal Dutch/Shell

Salomon Brothers

Scottish Amicabl

Swiss Bank Corp

17, 20, 16

21 16

Sudamericano

Rolls-Royce

Saint-Gobain

San Miguel

Scotlabank

Sunway City

TeleDanmark

Topdanmark

2 Ukraine Telecom

2 Trafficmaster

20 Turner Broadc

16 UBS

20 Varig

5 Vişa

19 Yaohan Inte

Suez

21

20 Merrilli Lynch

18 Monsanto

16 Motorola

Nike

PSC

Pressec

18 NEC

Companies in this issue

AMP ANZ Agip Air France Airbus Industrie Amstrad Australian Mutua Bank Handlowy Bank Hapoalim Bank of America Bimbo

Bosch (Robert) Cable & Wireles Calgene Canty Christiani & Ni Cray DML Daewoo Deutsche Morgan Gren

Deutsche Telekom **Energy Africa** Equifax Europay GAZ GKN General Giet Industrie Grupo Torras

Hokkaido Takushoku 21, 1 Indian Oil Corp Israel Corporation J.P. Morgan KMV Corp Klev Star Komercni Banka Krauss Maffel

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Market Statistics Annual reports service 30-31

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Chief price changes yesterday 26.5 + 1.5 63.75 - 4.5 33.0 - 2.4 175.0 - 5.0 76.25 - 3.75 76.5 - 3.5 31.0 - 6.26

OTHE FINANCIAL TIMES LIMITED 1997

Investors shiver in Wall Street chill By Richard Waters and Lisa Bransten in New York Caution has become the

that has just blown into New York on the heels of a balmy spring weekend, the sudden chill now descending over Wall Street has come as something

Last Tuesday's US interest rate rise - the first in more than two years - had been so well telegraphed in advance that it appeared to have passed with barely a shrug. But since then the investment barometer has swung sharply.

A bounce in share prices yesterday morning brought temporary respite. After two sessions of steep losses, investors were once again picking their way through the most damaged sectors of the stock market in search of bargains. But the mood has changed. Mr Peter Anderson, head of

equity investments at Feder- putting pressure on costs. ated Investors, a mutual fund group, was among those to display this new-found caution. While hunting yesterday for bargains among the stock market's fallen stars, such as technology and financial services companies, he confessed to a heightened awareness of risk. Companies that seem most in danger of failing to live up to earnings expectations are being weeded out of his portfolio. "We're somewhat more defensive," he said.

Such caution now holds predict a bear market, but the sudden shift in sentiment sug-

Like the savage snow storm market's watchword after the Fed's rate increase

> gests the bull market faces its flowing into equity funds than toughest test for some time. In the perverse logic of the markets, it has taken a powerful start to the year for the US economy to threaten the Wall Street's sense of well-being. After six years of economic expansion, there is simply too little slack in the system - too few workers to hire, too little unused production capacity -

to keep raising output without

Still searching for bargains among high-tech stocks but now feeling 'somewhat more defensive' Peter Anderson of Federated Investors

The Federal Reserve's selfdeclared pre-emptive strike last week seemed at first glance just the thing to cool the economy's heels. But on further consideration, the markets have decided it may well take one or more moves this year to have the desired effect.

The rise in interest rates already seems to be having an impact on investors' behaviour. T Rowe Price, one of the US's biggest mutual fund groups, reports that its customers have shifted some sway. It may be too early to money from equity to money market funds since late last week. There is still more cash

offer an attractive yield of nearly 6.5 per cent: should that rise above 7 per cent, it would begin to present a serious challenge to equity investment, said Mr Henry Kaufman, a Wall Street economist.

out, it adds - though interest

has shifted from the riskier

"aggressive growth" funds

that drove the stock market's

long-dated bonds could con-

tinue their declines seems, at

least for now, to be damping

demand for these instruments.

But short-term instruments,

which carry less risk, already

advance in recent months.

The global economic backdrop is also likely to become less supportive to the US stock market than in recent years. he adds. The economic woes of Europe and Japan have kept global interest rates low, creating a surge of liquidity: much of that money has found its way into the US Treasury bond markets, indirectly keeping borrowing costs for US producing "a traditional latecompanies low and putting a cycle squeeze".

solid foundation under share prices. If - a big if - the global interest rate cycle is turning. Wall Street will no longer be such a powerful magnet for the world's capital. None of this necessarily

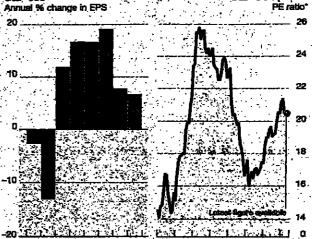
means that the long US bull market is dead. Indeed, many on Wall Street - including the bearish Mr Barton Biggs of Morgan Stanely - predict one last surge for the stock market, as the Fed succeeds in The threat that prices of extending US expansion.

But one of the other key supports for shares, the earnings growth of US companies, looks to be weakening. And without a steady rise in profits, it will he hard for the stock market to shrug off the rise in interest rates, as it did in 1994.

US analysts and economists expect the crunch in earnings to come in two stages. First will be the squeeze on profit margins in the first half of this year, as US companies wrestle with higher labour and materials costs. The stronger dollar will dent the profits of the multinational companies which have led the 1990s bull market. Then, further ahead, the Fed's attempts to put the brakes on the economy will add to the pressure by damp-

ing consumer demand. Earlier in the economic cycle, adjustments like these need not have had a serious long-term impact. Now, though, costs are rising, says Mr David Hale, an economist at Zurich Kemper Investments. not be a recipe for disaster, but





The price/earnings ratio on with a lot to live up to in the US stocks remains at a heady level, just as corporate earnings growth looks to be running out of steam. That may

it leaves corporate America

months ahead.

Lex, Page 16; International bonds, Page 24; World stocks, Page 36; London stocks, Page

Bre-X dealings in second system failure

By Kenneth Gooding in London and Scott Morrison

The Toronto stock exchange's computer system was oversecond time since Thursday when shares in Bre-X, the Canadian exploration company, resumed trading after a one-day halt.

More than 2m shares of the troubled Calgary-based company changed hands in the first two minutes of trading and 7.78m were traded in 22 minutes before the system crashed. Bre-X has 237m shares in issue.

Bargain hunters pushed the Bre-X price up 54 per cent, or C\$1.35 to C\$3.85, in early trad-

The computer system was down for nearly an hour before trading, excluding Bre-X, resumed. Minutes before trading in

Bre-X started, the company issued a brief statement indicating that a report by Kilborn SNC Lavalin on Bre-X's Busang gold prospect in Indonesia, was more complicated

than had been expected. The report was due to be published yesterday but the company said it required "a more thorough review by Bre-X's technical team than initially anticipated".

Separately, the Toronto exchange said it had started an investigation with the Ontario Securities Commission into the events that led to a collapse in the Bre-X share price. It would focus on trading patterns and disclosure

Authorities would be looking for unusual share trading patterns that might indicate persons or institutions acted on information that had not yet been made public.

They would also try to determine whether Bre-X had withheld information. "It's routine that we would do this," said a TSE official.

He was unable to say how long such an investigation Meanwhile, a number of US shareholders in Bre-X have initiated legal action against the company and some of its

Mr Steve Schulman at Milberg Weiss Bershad Humes & Lerach in New York said his firm had been approached by some investors. He was aware of two or three similar actions being considered by Bre-X shareholders in New York and

1

World stocks, Page 36



Jean-Louis Beffa: aiming to cut his stake in Suez

Suez approves Lyonnaise merger

Board proposes special dividend likely to total \$533m

By Andrew Jack in Paris

The board of Suez, the French gave its approval for a merger with Lyonnaise des Eaux, the utilities group. It proposed the FFr3bn (\$533m), before the

The dividend announcement Générale des Eaux. removes a potential obstacle to sion by the board of Lyonnaise des Eaux today and more detailed talks between the two companies on April 11.

The announcement was made on the day Mr Jean-Louis Beffa, chairman of Saint-Gobain, the glass and building materials company which owns 6.3 per cent of Suez, said he was in favour of the merger

on condition there was an exceptional dividend paid out first. He added that he holding company, yesterday intended to "significantly" reduce his stake in Suez as part of a plan to unwind the cross-shareholdings between 2 and 2.1 of their shares for payment of a special dividend, his group and a number of each Lyonnaise share. likely to total more than other French companies,

> receive compensation after the poor performance of the shares over several years, Suez said it Lyonnais. would pay a cash dividend to reflect the capital gains made last year when it sold its sub-

sidiary, Banque Indosuez. That would suggest a maximum payment of FFr3.4bn, and those close to the discussions indicated yesterday they expected the "super-dividend" to total at least FFr3bn.

Under current plans, if merger, those with stakes in Suez would exchange between

Morgan Stanley, the investwhich include Banque Nat- ment bank has been the lead ionale de Paris, Axa-UAP and adviser to Suez with assistance ment in the recently merged from Banque Indosuez, and In response to pressure from Bankers Trust, the financial services group, nas been with assistance from Credit

> Goldman Sachs, the US investment bank, is expected to provide a "fairness opinion" on behalf of Suez and Crédit Indosuez and Gartmore. Commercial de France for Lyonnaise when the boards

next meet on April 11. Suez published its 1996

firmed its return into the black with net profits of FFr843m investors vote in favour of the after reporting losses of FFr3.96bn in 1995.

results yesterday, which con-

The figures included the effect of FFr961m in charges triggered by the sale of its portfolio of property loans, and FFr500m against its investinsurance group, Axa-UAP.

However, Suez reported net adviser to Lyonnaise des Eaux, after taking into account FFr791m in the sale of nonstrategic investments. There was a further FFr951m in profits triggered by subsidiaries it sold in 1996 - notably Banque

> Lex, Page 16 Logic is simpler, Page 20

Delisting threat to C & N after increased losses

By Ted Bardacke in Bangkok

Christiani & Nielsen, the Thai construction company which engineered a takeover of its Danish parent company in 1992, is in danger of being delisted from the Thai stock exchange after reporting higher than expected losses

yesterday. exchange threatened to delist the company if it fails to show a profit this year.

Under a rehabilitation plan submitted to the exchange. Christiani & Nielsen said it would post a profit of Bt63m (\$2.4m) in 1997.

Analysts said that the projection appeared optimistic after the company yesterday revealed net losses increasing 178 per cent last year to Bt2.64bn. It had originally projected a 1996 loss of Bt2.4bn.

The reverse takeover, valued at \$80m, was seen as a symbol of the dynamism of the Asian construction and property markets at the time compared with the downturn being suffered in Europe.

A boom in the Thai stock market contributed to the Thai subsidiary being valued at nearly double that of its Danish parent company.

The company's strength in Thailand, where it employs more than three-quarters of its workforce, had been expected to provide the base for the company to revamp its loss-making European

operations.

But with the Thai economy

slumping and the property sector in crisis, that

foundation has cracked. The average gross margin on construction work has fallen to 3 per cent from a high of 15 per cent in 1992 while the company has focused on the volatile private sector high-rise market, neglecting the political connections it needs to retap the more stable and lucrative public sector

infrastructure business "The company embarked on rapid expansion despite a lack of qualified staff which led to poor bidding for projects, inadequate administration and oversight of operations resulting in poor gross margin, cost overruns and customers refusing to certify construction work when completed," said a recent report by brokerage W.J. Carr.

The company's order book at the end of 1996 was equivalent to just eight months of construction work · Bt6bn in Thailand, Bt500m in Europe and Bt600m from the Interted Group, the company's mechanical and electrical engineering arm.

The problems in Europe continue, according to the company's rehabilitation plan. Christiani & Nielsen took a large charge when it sold out its controlling stake in loss-making German property developer Nobleclear.

The sale was made to the company's main Thai shareholders, the Crown Property Bureau and Siam Commercial Bank, in an company's books.

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Dispute blocks Bezeq's path to market

Planned flotation of the Israeli telecoms group is being held up by a row between shareholders

telecommunications network, were disappointed that its 1996 results gave no hint of a resolution of the longrunning dispute between the company's two largest shareholders, the Israeli government and Cable and Wire-

The UK-based telecoms group has 10 per cent of on the board) and wants a further 10 per cent.

Israel's communications minister, argues that Bezeq is vital to Israel's security and is against foreign groups having a substantial stake in the company.

Last year she gave new weight to existing laws which prevent any company from buying more than 5 per cent without first informing the government. C&W could ask, but it would be turned

nvestors in Bezeq. could have consolidated state's stake from 76 per cent Israel's state-controlled Bezeq's results in its balance to 51 per cent by the end of

Furthermore, Mr Richard Brown, C&W chief executive, sees Bezeg as the core of his Middle East strategy.

Over the past several months, both sides have been trying to agree a compromise, through which C&W and the government would form a joint company to control 20 per cent of

The state would hold 51 But Mrs Limor Livnat, per cent of the joint company, and C&W the remainder. This might allow the UK company to consolidate Bezeq's results in its balance

So far, however, governmental approval has not been forthcoming.

Mr Avi Hochman, acting chairman of Bezeq, says the failure to reach agreement is damaging strategy, in partic-ular the planned flotation of the company.

Impatient to be free of govdisappointed. By acquiring ernment control, the com-

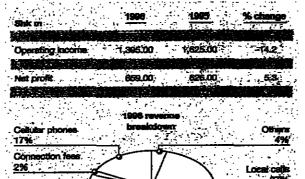
this year, through an international or a domestic list-

ing, or both. We have to know where the government stands with C&W before we even consider issuing a prospectus or approach the international markets," Mr Hochman says. He would prefer an inter-

national listing to a domestic one, since the Israeli market is too small to absorb a 25 per cent tranche of Bezeq Bezeq's recent \$150m sevenyear syndicated loan at 0.325 per cent above Libor reas-

The company has modernised itself beyond recognition. It has managed to stop long delays in installing new lines - less than 10 days is now the norm - and the entire national network has been digitalised over the past five years.

Bezeq intends to raise a total of Shkl.5bn (\$446m) in



ment and Shk4bn owed to when the international telebanks and other financial

An international listing

would allow Bezeq to expand

phone calls by between 50

This will reduce the cost of

with competition at home

Flotation would also give Bezeq much-needed cash to finance a Shkiobn five-year programme, which will include improving infra-

mpetition will inevitably affect Bezeq's than 27 per cent of its annual revenues, which stood at Shk8.2bn last year, will be challenged as its

There will be some compensation from the government - its royalties. for example, will decrease from 8 per cent to 5 per cent. And Bezeq will receive fees from rival international operators who have to use its network to deliver their

But Mr Hochman admits the government could do more to menare one of Israel's most successful companies for competition.

enables it to provide conventional "plain old telephone

however, wants to diversify into the growing multi-"We have to enter many

more services - teleshopping, banking. But we can not do that until the licence is brought up to date," he

In spite of its commitment to privatisation and competition, the government seems slow in preparing Bezeq for this challenge. "All we are asking is that

Bezeq is given the chance to compete fairly," Mr Hochman says. But planning is difficult while uncertainty remains

over the flotation. "Bringing the govern-ment's stake down to 51 per cent is achievable this year Give me the mandate and I will show it is achievable,

Like investors, Mr Hoch man is still waiting for the green light from the government and the end to its dispute with C&W.

Judy Dempsey

more than 10 per cent, it pany is hoping to reduce the loans this year to cover its into new markets, to cope Grupo Torras to repay 10% of Pta217bn debt

By Tom Burns in Madrid

Grupo Torras, the ill-fated holding related to the Kuwait Investment company set up in Madrid by the Ruwait Investment Office, has emerged from receivership.

its dealings in the late 1980s.

This ultimately led to its coltime it owed Pta217bn (\$1.53bn) to Grupo Torras.

unsecured creditors. Of this, Pta205bn was owed to companies Authority (KIA), which controls

A Madrid court last week finally A chastened Grupo Torras said lifted a suspension of payments yesterday there would be no order on Grupo Torras, allowing it resumption of the aggressive take- to resume normal business. The over strategy that characterised move came more than 18 months after the KIA and the Spanish government's credit agency lapse in December 1992, by which undertook to renew funding to

to a creditors' agreement that had been sanctioned by the receivers office prolonged the receivership

period. The first task of Grupo Torras is to begin paying back creditors under the terms of the agreement. The company will over the next 12 months pay out only Pta25.1bn of the total Pta217bn debt, with the KIA-related creditors writing off

include the Spanish tax authorities, the domestic institutions Banco Bilbao Vizcaya and Caja

Madrid, and Sumitomo Bank of

The KIA is now likely to keep Grupo Torras on a tight rein, and analysts expect it to explore every opportunity to recoup some of its losses through disposals. With its balance sheet finally cleared up, Other large creditors to Grupo the holding company now has of the company when it went into

paper manufacturer, as well as 35 per cent of Ebro, the main domesof Ercros, a former conglomerate that now concentrates on basic

Grupo Torras will continue to was appointed sole administrator

However, subsequent challenges Torras, which will receive 10 per estimated assets of Pta54.9bn, receivership. He reports directly o a creditors' agreement that had cent of what they had lent, against Pta355.9bn in 1991. to the KIA in London.

It has maintained ownership of The company said there were Torras Papel, Spain's leading no plans to appoint a new managing director and board. The KIA sacked the Grupo Tortic sugar producer and 14 per cent ras board shortly before it went

into receivership. Fifty-seven of its former managers and advisers face civil action in London and Madrid courts under the terms of 2 per cent to Shk3.52hn. Probe run by a Spanish auditor, who writs issued in 1993 that allege visions for doubtful debts conspiracy to defraud and breach fell slightly, from Shk1.06bn

Israeli banking group ahead 9%

By Avi Machiis

Bank Hapoalim, Israel's biggest banking group, yesterday said net profits rose 9: per cent in 1996, after a 15 per cent increase in the fourth quarter.

Hapoalim is at the centre of the government's plan to rapidly sell off its holdings in companies and banks. Two investor groups are lining up to bid for at least 25 per cent of the bank.

In the fourth quarter, net profits climbed from Shki05m a year before to Shk122m (US\$36.8m) in 1996. Operating and other income jumped 18 per cent,

from Shk522m to Shk614m. Analysts attributed the strong quarter to a revival in the Tel Aviv Stock Exchange during the period. which led to an increase in commissions from securities transactions and fund man-

ement fees. Net profits for the year were up from Shk748m in 1995 to Shk812m. Profits included Shk135m of income from selling non-financial banking legislation.

Operating and other income for the year rose a modest 3 per cent from Shk2.10bn to Shk2.17bn, as a weak stock market during most of the year led to a

decline in comp Profits from financing activities, before provisions

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The Board of Directors proposes a 1 for 3 stock dividend and a 2 for 1 stock split.

NOTICE OF ANNUAL GENERAL MEETING

The Annual General Meeting of Astra AB will be held at 6 pm on Monday, April 21, 1997 at the Stockholm International Fairs and Congress Center, Älvsjö.

NOTICE OF ATTENDANCE

Shareholders recorded in the Swedish Securities Register Center (VPC AB) on Friday, April 11, 1997 will be eligible to participate in the Annual General Meeting. Shareholders wishing to attend must notify the Company not later than 3 pm Swedish time on Wednesday, April 16, 1997, by mail at the following address: Astra AB, Legal Affairs, S-151 85 Södertälje, Sweden, or by telephone int. +46-8-553 260 00.

Shareholders whose shares are registered in nominee names must, if they wish to participate in the Meeting, be temporarily recorded in the shareholders' register at VPC AB. Notice must be given to the nominee in ample time before April 11, 1997.

A shareholder may attend and vote at the Meeting in person or by proxy. However, in accordance with Swedish practice, the Company does not send forms of proxy to its shareholders. Shareholders wishing to vote by proxy should submit their own forms of proxy to the Company.

AGENDA

- 1. Matters which, in accordance with the articles of association, are to be dealt with at annual general meetings of the shareholders, including presentation of the annual report and the auditor's report as well as the consolidated financial statements and auditor's report on the Group; resolutions regarding the adoption of the income statement and balance sheet as well as the consolidated income statement and consolidated balance sheet; appropriations with regard to the Company's profits or losses according to the adopted balance sheet; discharge from liability of the members of the Board of Directors and the President; and the election of the board members and auditors.
- 2. The Board of Directors' proposed resolution concerning an amendment to the articles of association, article 4, second paragraph, and article 5, entailing that the maximum number of Class A shares and Class B shares that may be issued be changed from 1,200,000,000 to 2,400,000,000, and that the par value of the shares be changed from 2 kronor and 50 ore at present to 1 kron2 and 25 ore (2 split). If so resolved, the first day for trading in the shares with the new par value on the stock exchanges in Stockholm, London and New York, is expected to be Monday, May 26, 1997.
- 3. The Board of Directors' proposed resolution for a stock dividend, entailing that the Company's shareholders - for each three existing shares of Class A or Class B stock held -

will receive one new share of Class A or Class B stock, respectively. Additionally, the Board of Directors proposes a so-called central sale of each shareholder's right that does not correspond to one full share. Wednesday, May 28, 1997, is proposed as the record date for the stock dividend, whereby the Company's shares are expected to be listed on the stock exchanges in Stockholm, London and New York ex-rights to the stock dividend, on Monday, May 26, 1997.

4. A proposal from shareholder Einar Hellborn for a special compensation for researchers.

Shareholders representing more than 30% of the votes in the Company have, after consultation, notified that they will be making the following proposals at the Annual General Meeting:

re-election of Bo Berggren, Claes Dahlbäck, Harry Faulkner, Tony Hagström, Håkan Mogren, Erna Möller, Lars Ramqvist and Marcus Wallenberg, and new election of James M. Denny and Lars H. Thunell as directors on the Company's board; Henry Danielsson has announced he will not be seeking another term.

James M. Denny (b.1932) is Managing Director of William Blair Capital Partners, Chicago.

Lars H. Thunell (b.1948) is President and Chief Executive Officer of Trygg-Hansa AB.

- that a fixed sum of 2,650,000 knonor be paid in fees to the Board of Directors, to be divided among the non-executive directors elected by the Annual General Meeting;
- te-election of Bo Lindén and Lars Östman as auditors;
- re-election of Bo Magnusson and Svante Forsberg as deputy auditors.

DIVIDEND

The Board of Directors proposes a dividend of 4 kronor per share. The Board proposes Thursday, April 24, 1997, as the record date for the dividend. Provided that the Annual General Meeting votes in favor of the proposal, dividends are expected to be sent from the Swedish Securities Register Center on Friday, May 2, 1997.

Admission cards will be sent to shareholders who have notified their intention to attend the Meeting.

> Södenälje, Sweden, April 1997 The Board of Directors

Energy Africa seeks more black investors

By Robert Corzine

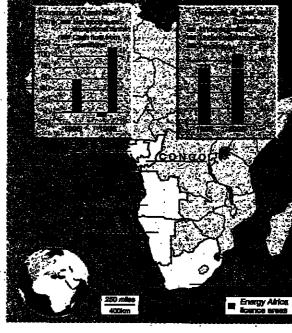
Energy Africa, sub-Saharan Africa's only private sector oil and gas exploration company, wants to attract more black empowerment groups to its shareholder register. Mr John Bentley, manag-

ing director, said the Cape Town-based company wanted more African investors, as well as participation from the growing number of South African black empowerment groups.

The company is 60 per cent owned by Engen, the South African oil refining and marketing group. But Mr Bentley said he would like to see Engen's stake diluted when Energy Africa next needed to attract finance. Additional funds should not be needed for at least a year. "But I would eventually expect the Engen share to be diluted," he said in an interview.

The company has enjoyed high level backing from the South African government over the past year, helping it to secure new exploration and development deals in Gabon and Angola.

Last week Energy Africa reported it had moved into profit for the six months to the end of February, with net income of R12.7m (\$2.87m), compared with a R1.9m loss in the same period last year.



A 53 per cent rise in net production to 10,200 barrels a day boosted turnover to R149.4m, compared with

R69.7m. Mr Bentley said he hoped a recent agreement in Gabon could be a model for other African deals. Local investors will take part along with the Gabon government in Energy Africa's joint venture in the country.

ties of such a venture were complicated. But he thought the arrangements would further enhance the company's ability to gain preferential

negotiating rights. One problem with expanding the role of black empowerment groups in Energy Africa was their need for dividends, which the conspany does not pay - in common with a number of other Mr Bentley said the legalienergy and power groups.

Charge puts SPT into the red

By Vincent Boland in Prague

SPT Telecom, the Czech telecoms operator, fell into the red in 1996 after taking a one-off restructuring charge of Kč8.75bn (\$300.8m) for asset write-downs and future job losses.

Shares in SPT, 27 per cent owned by PTT Telecom Netherlands and Swiss Telecom, closed down Kč25 at Kč3,425 after the results, but analysis were generally posi- from its 26,800-strong work- 100 people.

tax savings from the writedowns.

Of the Kč8.75bn charge, Kc7bn covers a write-down of the value of analog systems as the company switches to digitalisation, and an adjustment to fixed assets, while Kcl.2bn relates to provisions for future job

SPT is to cut 10,000 jobs

tive, pointing to a strong rise force by 2000. Some 6,000 will in revenues and to potential be redundancies. The aim is be redundancies. The aim is to boost lines per employee from the 109 now to near 300. The restructuring charge left SPT with a net loss of Kč483m for 1996 compared with net profit of Kč4.8bn the previous year. Revenue surged to Kč32.5bn from Kč26.4bn, reflecting the addition of 417,000 new customers, expanding the penetration of lines to 27.5 for every

MINDUSTRIVÄRDEN

Annual General Meeting

Shareholders of AB industrivarden are cordially invited to attend the Annual General Meeting on Tuesday, April 29, 1997, at 2 p.m. at Grand Hôtel, Vinterträdgården, in Stockholm, Sweden.

For complete notice with agenda, please contact industrivarden.

Stockholm, Sweden, April 1997

The Board of Directors

AB INDUSTRIVÄRDEN (PUBL), BOX 5403, S-114 84 STOCKHOLM, SWEDEN PHONE +46 8 666 64 00, FAX +46 8 661 46 28 INTERNET http://www.industriverde

COMPANIES AND FINANCE: THE AMERICAS

Operating profit falls at Varig

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Varig, the leading Brazilian inflation, which analysts airline, released headline figures showing losses of of performance. R\$64m (US\$6.4m) last year Varig's operating performance showed a sharp according to corporate law. decline under both reporting the comparate law. decline under both reporting the comparate formation methods. Profits fell to comparate from the first quarter from the comparate formation and the comparate formation and the comparate from the comparate formation and the comparate formation and the comparate from the comparate formation and the compa R\$91.7m, compared with a R\$23.6m (R\$20.6m under corloss of R\$7.5m, after adjustments to take account of R\$112.8m in 1994 to R\$250.5m inflation of about 10 per cent in 1995. during the year. Under changes to Brazil-

ian corporate law introduced

figures under the previous market following a govern- while asset values remain method of correcting for ment credit squeeze.

at the end of 1995, companies important destinations, rency debts have a bigger its debt. That makes us won-must publish unadjusted restrictions on US visas, and impact as the Real deprecider what will happen as the

Turnover was R\$3.14bn, down from R\$3.44bn in 1995. Varig said it expected sales

the same period last year. The discrepancy between Varig's results under the two reporting methods stems The company blamed a largely from dollar-denomi-weak start to the year, nated debts of \$2.2bn. Under caused by airport strikes in corporate law, foreign cur- but not enough to amortise

results, but may also issue by a decline in the Brazilian ates in line with inflation, aviation market becomes static.

With little prospect of reducing its indebtedness, the company is likely to face difficulties in generating sustained growth.
"Its financial situation is

very tight," said Mr Marcelo Starec of Bozano Simonsen, a Rio de Janeiro investment bank. "Varig is generating cash flow of about \$800m a year, enough to make interest payments of about \$215m

more competitive. It must find ways of becoming more efficient."

The company has begun a restructuring programme aimed at cutting costs. But its ability to take more radical measures is limited by Varig's ownership structure, under which control is concentrated in the hands of a foundation administered by

the company's employees. Because dividends must be calculated according to corporate law, the company said it would make no divi dend payments for 1996.

Monsanto agrees Calgene purchase

By Laurie Morse in Chicago

Monsanto, the St. Louis based chemicals and life sciences company, said it had reached an agreement with Calgene to acquire the remaining shares of the Cal-ifornia-based biotechnology pioneer for \$8 a share. The offer is substantially higher than the \$7.25 per share offered by Monsanto in January, and raises the

value of the deal to about

\$240m. Monsanto already has a controlling interest in Calgene, and said full owner-ship would speed technology sharing between the two companies. "We can now better realise the benefits from Calgene's research by combining our technology efforts and bringing our products to market more rapidly," said Mr Hendrick Verfaillie, Monsanto executive vice-president

The deal will give Monnto complete ownership of Calgene's extensive research into plant genetic engineering, where it has been a pioneer in fruit and vegetable research, and in designing seeds that yield enhanced vezetable oils.

Calgene also has a cotton seed business which analysts say Monsanto may swap for other plant-engineering technology.

Monsanto announced late last year it would spin off its traditional bulk chemicals business and become a life sciences company. The group has been acquiring companies that have biotechnology research that complements its life sci-

ences strategy. "Monsanto's strategy is much like Microsoft or Netscape," said Mr James Wilbur, securities analyst at Smith Barney in New York. "Almost anyone will have to use their technology to do

business in this field."

Mr Wilbur said he expecgene's Stoneville cotton seed business to another California-based agricultural bioengineering company, Mycogen, in exchange for rights to use Mycogen's processes for creating insect-resistant cotton and corn.

Calgene has piled up a string of operating losses which Monsanto is expected to use to reduce income taxes, cutting the real cost of the Calgene purchase. The purchase agreement

was approved by a special committee of Calgene directors who were indeper of Monsanto and not Calgene employees. Monsanto expects to begin a tender offer for the Calgene shares on April 7.

The agreem ent is subject to the negotiation of a set-tiement of shareholder lawsuits that were filed after Monsanto's initial purchase offer was made in January.

AMERICAS NEWS DIGEST

SEC filing shows Liggett difficulty

Liggett, the US cigarette maker that caused a storm two weeks ago by reaching a deal with anti-tobacco forces, is in serious financial difficulties, a filing with the Securities and Exchange Commission shows. The figures shed more light on the the decision by Mr Bennett LeBow, chairman and chief executive of Brooke Group, Liggett's parent, to hand over part of Liggett's pre-tax profits to tobacco opponents as part of the legal settlement.

The SEC filing, consisting of Brooke Group's annual report, reveals that the agreement was in large part meaningless because Liggett did not make any pre-tax profits last year and does not expect to do so in the near uture. Liggett's accounts are heavily qualified by the company's accountant, Coopers & Lybrand, whi that looming debt repayments "raise substantial doubt about the company's ability to continue as a going

The filing shows that Liggett made operating losses of \$18.4m last year and expects still larger operating losses this year. Based on this trend, it does not expect to generate sufficient cash from operations to meet payments on some secured notes next year and the year after without restructuring or refinancing its debt.

Analysts say Liggett's motivation in reaching a deal with tobacco opponents was to make the company attractive as a takeover target if litigation started to go against the industry. Richard Tomkins, New York

Scotiabank to expand abroad

The most international of Canada's big six banks will spend at least C\$200m (US\$153m) this year to expand operations in South America, the Middle East and Asia The Bank of Nova Scotia, with total profits last year of C\$1.07bn, is in negotiations to buy a share of Peru's Banco Sudamericano and increase its 25 per cent stake in Argentina's Quilmes, said Mr Peter Godsoe, the bank's chairman. Scotlabank will re-open operations in Lebanon and possibly in Indonesia, and is considering acquisitions in El Salvador and Guatemala, adding to its string of coldings in more than 50 countries.

Mr Godsoe said his bank was looking to re-invest in emerging markets operations because they are generally more profitable than those in mature markets back home Scotiabank's non-North American operations generated C\$331m, or 31 per cent, of total profits, even though they represented 23 per cent of the bank's earning assets of

Scotiabank has aggressively moved into Latin American markets in the last year. The bank took administrative control of ailing Grupo Financiero Inverlat, Mexico's fourth largest bank.

Reichmanns back in property The Reichmann family is returning in force to the

Canadian property market through a merger of Camdev and O&Y Properties. Both companies are controlled by Reichmann Hauer Holdings, in turn owned by Mr Philip Reichmann, son of Mr Albert Reichmann, and Mr Frank Hauer, son-in-law of Mr Paul Reichmann. Paul and Albert Reichmann built Olympia & York

Developments into the world's biggest property developer until it failed in the early 1990s.

entreprenaur Mr Robert Campeau's property empire, last December and has now bought a further 8m shares held by Citibank Canada. In a series of transactions, including a public issue, Reichmann Hauer will own 55 per cent of the merged group with the balance publicly held. The company will invest in office buildings in Toronto and other Canadian cities. Robert Gibbens, Montre

CANTV approves dividend

Compañía Anônima Nacional Teléfonos de Venezuela (CANTV), the Venezuelan telecommunications company has approved a cash dividend of Bs13.24 a share for its 1996 fiscal year. CANTV's American Depositary Shares. each representing seven class D shares, will receive a dividend of Bs92.68. The company said payment of the dividend, will be announced in the near future. During Monday's shareholders' meeting, CANTV president, Mr Gustavo Roosen, was confirmed in office. Raymond Colitt. Caraca:

Venezuelan utility ahead

Electricidad de Caracas, the Venezuelan power utility, announced a net profit of Bs51bn (\$128m) for 1996, up in nominal terms from Bs33.1bn in 1995. Operational gains totalled Bs55bn in 1996, down 42 per cent over the previous year in real terms. Rasmond Colit

A time of transition for Bimbo

The managerial baton is being passed on as the Mexican group expands its horizons

most conservative our market was to meet the family-run businesses which dominates the \$2bn turf, and that meant expandmarket for sliced bread, cakes and biscuits, is undergoing its first generational handover since two brothers. Lorenzo and Roberto Servitie, founded the country's second-largest food company 52 years ago.

Don Lorenzo, 79, and Don baton is being passed on to Daniel Servitje, Don Lorenzo's 39-year-old son, who will take over as Bimbo president and chief executive officer in May.

The change accompanies Bimbo's transition into a fully-fledged multinational Over the past three years, the company has expanded aggressively into the US and Latin America, where it is now the market leader in

El Salvador, Guatemala and Honduras. a joint venture with Grupo its US products. Leal, and hopes to become the market leader there

seven countries: Argentina, Chile, Venezuela, Costa Rica,

imbo, one of Mexico's that the only way to protect turf, and that meant expand-

ing abroad." Bimbo's expansion, which required investment outlays of \$600m in three years, was all the more unusual as it coincided with Mexico's economic crisis.

The company, however, weathered the financial tur-Roberto, 69, will remain on moil better than most of its the company's board of peers due to its extremely directors, but the managerial low leverage: its net debt to equity ratio averaged less than 21 per cent in 1996. As a result, Bimbo financed most of its foreign acquisitions with internally generated cash flow.

in the US, where Bimbo first established a presence 18 years ago, sales have grown rapidly and totalled almost \$175m last year.

B imbo's main market in the US is the Hispanic community in spite of the unfortunate connotations of the commany's operations in Colombia in Bimbo has kept its logo on 53,350 employees.

"We were a very big fish "For Mexican migrants, years standing. in a small pond," says Mr Bimbo is a household name."
Rafael Velez, Rimbo corpo.
Within Mexico, Bimbo American Free Trade Agree acceding to a government vative ethos is evident in the



The continuing squeeze on real incomes in Mexico limits Bimbo's growth potential at home Mr Velez says the next two

prices to help contain the quarters in Mexico City: the inflationary pressures of the only concession to corporate

1996 to 808m pesos (\$102m), a inauguration of Bimbo's first 158 per cent increase over bread factory. There are no panic community in 1995, when Bimbo was executive dining rooms.

Teras and California, and in allowed to adjust its prices. Mr Velez expects the community in t downturn, the company did which contributed 16 per Bimbo recently launched brand name in English, not fire a single one of its cent of Bimbo's \$2bm sales "We do not shed person-

"We tried other brand nel; it is part of the companames but it just didn't ny's social philosophy," says Mexico which limits Bimbo's work," Mr Velez explains. Mr Velez, an employee of 30 growth potential at home.

traumatic devaluation of the decor is a framed edition of a 1945 newspaper adver-Profits bounced back in tisement announcing the

Mr Velez expects the com-In spite of the economic pany's foreign operations. last year, to grow in importance, given the continuing squeeze on real incomes in

years will be ones of consolidation for Bimbo. He does not expect significant shifts in company strategy with the changing of the guard.

Profits from its foreign subsidiaries will be reinvested to expand those operations, and there are no more acquisitions planned at

Leslie Crawford

This is the ninth in a series on Latin American family-Bimbo's paternalism omestic demand for run companies. Previous extends to the provision of Bimbo products is articles appeared on January rate president. So when withstood a sharp fall company pensions - a rarity expected to grow by 17, January 27, February 13, Mexico joined the North in profits in 1995 after in Mexico - while its conser only 3 to 4 per cent in vol. February 18, February 28, ume this year, according to March 12, March 21 and

ment in 1994, we decided request to hold down bread company's spartan head- the company's projections. Kroll agrees to takeover by Equifax

By Richard Tornkins. in New York

Kroll Associates, the best-known operator in the world of corporate gumshoes, has spent 25 years building up its reputation as a white-collar crime buster. Now the New York company has itself been grabbed.

After a year or more of speculation that it was have been about \$70m. looking for a merger partner, it yesterday announced it had agreed to be taken over by Equifax, an Atlanta-based credit-checking company. Terms were not disclosed.

Kroll with its insurance information services division, saying the acquisition would increase its ability to give customers the information they need to manage complex business risks.

Kroll has about 300 employees in 22 offices around the world. Revenues last year are believed to

detective work for corporate clients, helping big companies in the US and overseas spot fraud, assess risk, do due diligence work on poten-

tial acquisitions and manage internal security. In the takeover boom of

for due diligence and for damaging the reputations of bostile bidders. In the UK's bid battle

between Hanson and ICI, Kroll discovered that the late Lord White, head of Hanson's US operations, had Kroll pioneered the field of a string of race horses bought for him by his company, a revelation that did nothing to help Hanson's ultimately unsuccessful bid. More recently, Kroll's con-

ing down Iraqi assets after the Gulf war of 1991; setting the 1980s it experienced a up systems to prevent a surge in demand for its skills recurrence of Orange County's financial collapse; and working with UK investment banks to try to stop teams of traders leaving.

However, the company has suffered increasing competition, not just from other specialist operators, but from big accountancy firms, which have been expanding into this area. Last year Kroll was said to have held merger talks with

Coopers & Lybrand.

which it is now merging claims to be among the world's biggest providers of information and custom systems to mitigate risk and fraud in insurance, business, and government.

its insurance information division this summer under the name ChoicePoint. which will be separately quoted on the New York Stock Exchange. Kroll will form part of this

Equifax is due to spin off

company, retaining its own name and management structure.

BANKING FINANCE & GENERAL APPOINTMENTS



Ernst & Young Global Client Consulting

European Resource Manager

Ernst & Young Global Client Consulting is a multinational organisation which provides global management consulting services to the largest world companies to meet strategic mission critical issues facing these clients.

The group now wishes to appoint a European Resource Manager, with the prime mission to support the global account partners through management of all processes related to facilitating the building of a world-class European capacity and deploying best teams on a pan-European basis.

As a key member of this growing international team, the Resource Manager's areas of accountabilities include coordinating international recruitement, supporting international movements of resources across the world (expetriation and secondment process), implementing and secondment process), implementing performance management processes to evaluate and develop professionals across national boundaries, and managing the ernational staffing process.

opportunity have several years professional experience, partly gained in a professional services firm and a proven mack record in developing and implementing leading edge human resource management processes. International experience is necessary to operate effectively in this multicultural content. English is the working language, a good command of another European languages is decirant Pf feature. track record in developing and anguage is desired PC fluency is a must. The position will be based in one of Europe's largest cities.

An international mind-set, solid planning and organising skills, a strong sense of negotiation and problem solving. excellent interpersonal skills, strategic and business indomena business judgement are key attributes to succeed in this challenging role.

If your experience and abilities match this position, please write, starting your relevant skills profile together with a CV in English, present renumeration package and availability to Brights Morel - Ernst & Young Global Client Consulting - Tour Manhattan - 6, place de l'iris - Cedex 21 - 92095 Paris la Défense 2 - France.

II ERNST & YOUNG

Deutsche Bank



Aktiengesellschaft

(Incorporated in the Federal Republic of Germany with limited liability) Frankfurt am Main

We are convening our Ordinary General Meeting this year on Tuesday, May 20, 1997, 10.00 a.m. in the Festhalle, Messe Frankfurt, Ludwig-Erhard-Anlage 1, 60327 Frankfurt am Main.

Agenda:

 Presentation of the established Annual Financial Statements and the Management Report for the 1996 financial year with the Report of the Supervisory Board; Presentation of the Consolidated Financial Statements and Group Management Report for the 1996 financial year

2. Appropriation of distributable profit

3. Ratification of the acts of management of the Board of Managing Directors for the 1996 financial year

Ratification of the acts of management of the Supervisory Board for the 1996 financial year 5. Election of the auditor for the 1997 financial year

6. Authorization to acquire own shares

7. Election to the Supervisory Board

8. Creation of authorized capital and amendment to Articles of Asso-

9. Authorization to issue participatory rights with warrants, convertible participatory rights, bonds with stock warrants and convertible bonds, creation of conditional capital, amendment to the Articles

Shareholders entitled to participate in the General Meeting and to stercise their right to vote are those who have deposited their shares during normal office hours and in the prescribed form at a depositary bank until the end of the General Meeting.

Depositary banks are those specified in the Bundesanzeiger of the Federal Republic of Germany No. 61 of April 2, 1997. Depositary banks in the United Kingdom are:

Deutsche Bank AG London, Bishopsgate

London EC2P 2AT Midland Bank pic, Securities Services UK Department, Ground floor, Suffolk House, 5 Laurence Pountney Hill,

London EC4R 0EU Shares shall only be deemed deposited if they have been lodged by May 12, 1997, at the latest, with either of the aforementioned depositary banks or with any other authorized depositaries in the United Kingdom. In the U. K., entrance cards or forms of proxy will be issued by the aforementioned offices of Deutsche Bank AG or Midland Bank plc

to whom application should be made. Copies of the Annual Report as well as the complete wording of the Agenda will be available at the aformentioned banks on or about April 15, 1997.

Frankfurt am Main, March 1997

The Board of Managing Directors

The Annual General Meeting of Sparhanken Sverige AB (publ) will be held

at Berwaldhallen, Strandvägen 69, Stockholm,

COMPANIES AND FINANCE: EUROPE/MIDDLE EAST

Logic is simpler than logistics

A merged Suez-Lyonnaise des Eaux may be tricky to achieve, says Andrew Jack

on Wednesday, April 23, 1997, at 2.00 p.m. (CET). Admission and registration will begin at 1.00 p.m. (CET). Notification etc. Shareholders who wish to amend the Annual General Meeting most be istered in the share register kept by Värdepappeacent Othe Swedish Securities Register Centre)on Friday April 1

and must notify the Company Secretary, Sparhander Sverige AB, S. 105 34 Stockholm in writing or by telephonolog +46 8 670 21.40 or 105 34 Shockhokn in writing or by telephonolog +46 8 670 21 40 or faxing +45 8 411 55 64 not later than Friday, April 18, 1997, at When giving notice of attendance shareholders sha name, personal/company registration number (at the case of Swedish citizens or companies), address and telephone number. Sweetsh cuseus or companies, state estate temperature. Shareholders represented by proxy should send a duly signed Power of Attorney and, if the Power of Attorney is issued by a legal entity, a certified Registration Certificate or other document attesting the authority of the person signing to the

Sank before the AGM. Shareholders whose shares are non be qualified to attend, request that they are temporarily registered in the share register kept by the Securities Register Centre. Such registration which normally takes a few days must be effected by April II, 1997. Shareholders should advice thei es of such request in good time before that date.

i. Opening of the Meeting.

Election of Chairman of the Meeting.

Proposed: Carl Axel Petri, former Chief Justice of Appeal Appointment of Secretary.

Preparation and checking of the Register of Shareho Appointment of two persons to check, together with the Chairman, the Minutes of the AGM.

The covertion of whether the Meeting has been

Address by the Chairman of the Board. 8. a) Presentation of the report of the Directors and the

b) The President's report

c) Presentation of the Auditors' reports for the Bank and the The question of adopting the Income Statements and Balance Sheris of the Bank and the Group for the financial

Appropriation of income according to the adopted Balance Sheet, and adoption of record date for dividend. *Proposal*:

11. The matter of discharge of the Directors from hability in respect of the period covered by the Annual Report.
(Discharge recommended by the Auditors).

Proposal for amendments to the Articles of Association. Main features of the Board's proposal:

The Board of Directors proposes a change in Article 12 of the Articles of Association to the effect that it shall be possible to hold general meetings of shareholders in, besides Stockholm, Falun, Gothenburg, Halmstad, Jönköping, Karlstad, Linköping, Luleå, Malmö, Sundsvall, Umeå, Valorio, Orebro or Ostersund.

The Board further proposes a change in Article 9 to the effect that the number of Auditors and Deputy Auditors appointed by the AGM shall be not less than two and not e than three, with an equal number of Deputy Auditors Moreover, the Board proposes that it shall be expressly stated in the Articles of Association that the Auditors and the Deputy Auditors shall be authorized public accountants

Determining the number of Directors and Deputy Directors to be appointed by the General Meeting. The Election . Determining the number of Auditors and Deputy Auditors

to be elected by the General Meeting. The Election Committee's proposal: See below. Determining the remuneration to Directors and Auditors

16. Election of Directors and Auditors, and their Deputies. The Election Committee's proposal: See below.

18. Proposal for a new share issue. Main features of the Board's prop

On February 17, 1997, the Boards of Directors of Forenings banken AB ("Föreningsbanken") and Sparbanken Sverige AB/Swedbank ("Sparbanken") unanimously decided to propose a merger of the two banks. The merger is intended to take place in two stages. At the first stage Sparbanken makes a public offer to Foreningsbanken's shareholder makes a putter of warrants issued by Foreningsbanken to receive new shares in Sparbanken in exchange for Foreningsbanken shares or warrants. The second stage volves a merger of Foreningsbanken and Sparbanken ith Sparbanken as the company taking over. In order to implement the first stage of the planned

amalgamation the Board proposes a noncash issue whereby

74,595,239 new shares which are to be paid for in kind.

The Board proposes that, in the main, the following terms

os shall apply to the new issue: The new shares may only be subscribed for by holders
of shares in or warrants issued by Föreningsbanken
with the right and the obligation for the subscribers to pay for the new shares by transferring to Sparb their shares in and/or warrants issued by Forenings ken. For seven series A ordinary shares in Forent banken two new shares in Sparbanken will be received and for three series B preference shares one new share in Sparbanden will be received. Each one bundred warrants issued by Fereningsbanken will carry the tight to subscribe for fifteen new shares in Sparbanken. The issue cannot be

2. The subscription period for the new shares ends on May

The new shares will carry the right to dividends for the financial year 1997 cowards.

4. The issue of new shares is conditional upon the follo A sufficient number of new states being subscribed for to have transferred to Sparbanken a total number of shares in and warrants issued by Föreningsbanken which, on full utilization of the warrants, represent to than 90% of the total number of shares and votes in en. The Board of Sparbanken sh powever, bave the right to proceed with the issue eve at a lower level of acceptance, provided that it is believed that a sufficient majority can be achieved at the AGM to carry out the merger between Foreningsbanken and

The necessary authorizations being granted without restrictions or with such restrictions as the Board may

1997 AGM to amend the Articles of Association so that each person entitled to vote at a general meeting shall be entitled to vote for the full number of shares owned and represe Spartanken's acquisition of shares in or warrants issu

by Foreingsbanken, or a subsequent merger between the two banks not being, until the time of registration of the issue, in the joint opinion of the Boards of Sparba ken and Foreningshanken - obstructed or rendered mo difficult due to any legislation, judicial ruling, official stance beyond the control of Snarbanken usevailing or expected at the time of forming

19. Other matters, if any.

20. Closing of the Meeting.

The complete proposals of the Board of Directors with regard to items 12 and 18 are available from the Compan retary of Sparbanken Sverige AB, Stockholm

The Board of Directors recommends a dividend of SFK 5.50

Monday April 28, 1997, is proposed as record date for payment of the dividend.

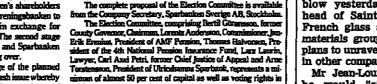
If the Annual General Meeting ap it is expected that the dividend will be said through the Swe dish Securities Register Centre (VPC) on Tuesday, May 6, 1997

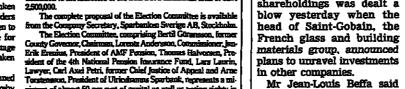
In connection with the AGM shareholders will be welcome to view a display of the Bank's current IT and marketing projects.

Stockholm, April 1997 SPARBANKEN SVERIGE AB (publ)/SWEDBANK **Board of Directors**

The Election Committee appointed by the AGM has presented its proposal for the election of Directors to the effect that the number of ordinary members - 15 - remains unchanged, with one deout? of ordinary members - 15 - remains unchanged, with one deputy member. The Election Committee proposes re-election of Giran Ablistons, Ronald Bergman, Gorm Colert, Bo Forshund, Reinhold Geijer, Kurt Lodenius, Per-Molin, Per-Giran Nyberg, Marianne Qvick sourz, wasseene kamei, Hengt Rosen, Nils Stoomby, Hêlkan Tid-hand and Monica Ulibiehn as Ordinary Members, election of Goran Johnsson as new Ordinary Member, and re-election of Lara-Erik Kvist as Deputy Member. The Election Committe has further proposed re-election of the Auditors Uli Egends and Torbjörn Hanproposed re-election of the Auditors UII Egends and Tortistin Han-son, and re-election of the Deputy Auditors Jan Larsson and Olof Cederberg. The Election Committee recommends unchanged renunciation to the members of the Board at a maximum total of SEK

minum of almost 50 per cent of capital as well as voting rights in the Bank.





company in which Saint-Gobain holds 6.3 per cent, as part of a shift towards a "purely financial" vision of profitability.

Mr Beffa said that until recently it had been impossi-

10% rise for year By Andrew Jack in Paris its investments in other

companies, because their France's long-standing low stock market value would have triggered significant capital losses. He stressed that some cross-shareholdings were more strategic and less likely to be rapidly sold -

Gérard Mestrallet: strategy

of a controlling 63 per cent

stake in Tractebel, the Bel-

change cheered markets

gian utilities group.

illiquid assets".

to net asset value at which

ers, the merger would offer

the chance to be part of a

larger group, which would

have access to Suez's sub-

stantial cash pile to help

fund future acquisitions, and

For Lyonnaise sharehold-

Other positive mes

and Banque Nationale de reduce his group's stake in Paris, in which it has 1.6 per Suez, the French holding cent. It also owned 1.1 per

late 1980s, when French companies sought allies at the time of their privatisation, rather than risk falling under foreign control.

Mr Beffa's comments came as he unveiled net income with FFr4.2bn in 1995. Sales jumped from FFr70.3bn to FFr91.4bn, and there were restructuring charges of FFr1.2bn compared with FFr569m. Net debt increased more than three-fold, from

Danish shipyard

Penang Shipbuilding Construction (PSC) group is to pay \$100m for 48 per cent of the loss making Danish shipyard, Danyard, which is owned by Lauritzen Holding, the shipping and shipbuilding group. Danyard is part of one of

five consortia short-listed by the Malaysian ministry of finance to bid for an order to build the first six of a total

to increase his holding to 65

per cent.

However, Danish legislation does not permit a foreign company to own a controlling interest in a company which manufactures or sells military equipment. To guarantee the much-needed foreign investment, Danyard's naval ship-

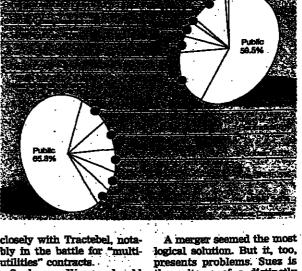
hived off as a separate company, Danyard Aalborg. PSC will own 40 per cent of its capital but only 20 per cent of the voting shares.

heavy losses for 1996, blamed on miscalculations when it accepted orders to construct chemical tankers for US company Stolt Nielsen, and for a Danish group.

about DKrlbn (\$156.5m) on an order originally worth

income last year of DKr4.39bn, reported its best result for the past six years, with profits rising from DKr26m in 1995 to DKr272m. However.the board said

that return on equity capital of 10 per cent was not yet satisfactory and that no dividend would be paid for the third successive year.



closely with Tractebel, notably in the battle for "multi-

Such an alliance should including the offer of a share prove particularly important - if not essential - in the buy-back last year - seemed at last to demonstrate that intensifying competition likely to follow the dereguthere was room for optimism lation of utilities provision for investors, who had been within Europe, scheduled to stung by the poor performance of their stakes since begin next year. Suez was privatised in 1987.

ut the logistics of Yet the group remains, in B combining the two groups are not simple. the words of one analyst, "a large investment trust, Suez already has an 18 per which has not performed very well and still has many A holding company which contained both Lyonnaise and Tractebel would create a far more operational business, offering the prospect of reducing the heavy discount

logical solution. But it, too, presents problems. Suez is the epitome of a distinctly French-style approach to capitalism, and stands at the centre of a web of crossshareholdings put together during the 1980s. The result is that it is accountable to some large corporate investors, not all of which will be easily convinced of the advantages of the deal.

Some - such as Générale des Eaux, the leading rival French utilities group which owns an indirect stake in Suez through Electrafina of Belgium - are philosophically opposed to a move which threatens their own market position.

Others are more pragmatically concerned that - after holding on to poorly performing Suez shares over many years - they should be able to reap some financial reward for the turnround at the group before any merger

increasing discussion of a Suez.



Bunvei

m bank!

Jérôme Monod: has been

"super-dividend" of FF13bn or more which would be distributed to investors. Subsequently. Suez shareholders would receive one share in Lyonnaise des Eaux in exchange for every 2 or 2.1

shares they owned. But the operation would not finish there. Many analysts are convinced that the logic of the merger would drive Suez ultimately to divest most of its businesses outside the utilities sector, such as Sofinco, its consumer credit arm, in which Crédit Agricole already holds an option to buy 20 per

Equally, there is scepticism over whether Tractebel and Lyonnaise des Eaux would survive as separate operational businesses at arm's length. Long-term. some combination of the two is a clear possibility.

Other vexed questions include the name of the merged group, and the precise roles to be given to top That is why there is executives at Lyonnaise and

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INTERNATIONAL NEWS DIGEST

Class action over Holocaust cover

A group of Holocaust survivors has filed a class action law suit in New York seeking \$7bn against seven large European insurers, claiming that the companies refuse to pay out on policies of relatives who died at the hands

The suit, filed on Monday in the US District Court in Manhattan, names as one of its targets Assicurazioni Generali, Italy's largest insurer, which is already defending itself against similar allegations made by a group of 53 families in Israel. Generali, which had its roots in the Austrian-Hungarian empire, had a dominant market share in Eastern Europe before World War II.

Yesterday, Mr Guido Pastori, director general of Generali in Trieste, said the company would not comment until it had seen the full 30-page suit. However, he said Generali's subsidiaries in Eastern Europe were nationalised by communist governments after the Second World War, along with those of most of its competitors. The company, therefore, had no legal obligation to pay policies. "We never paid any policies issued in Eastern Europe after nationalisation," he said

Terms of the nationalisation meant that the new state-owned insurance companies took over both the assets and liabilities of each insurer, Mr Pastori said. However, lawyers for the plaintiffs will argue that Generali and the other insurers had an obligation to pay claims with excess assets located outside Eastern Europe According to the lawsuit, relatives of Holocaust victims who had been policyholders made repeated attempts to obtain payment of claims from the insurance companies but were rebuffed.

Other parties named in the suit are Wiener Allianz Versicherung Aktiengesellschaft (also known as Phenix Allgemeine Versicherungs Aktiengesellschaft), the French Insurer AGF, Italian insurer Riunione Adriatica Di Sicurta, Allianz Group of Germany, Austrian-based Der Anker and Bavarian Reinsurance Company based in

Israel Corporation falls 71%

Israel Corporation, a leading holding company, said net yesterday profits declined 71 per cent in 1996, as a number of its subsidiaries recorded poor results. Net profits dived from Shk84m in 1995 to Shk24m (\$7.15m) last year. Revenues were down 14 per cent from Shk3.82bn to Shk3.30bn. Karnings per share were Shk4.25, down from Shk17.8 in 1995. Capital gains dropped from Shk57m in 1995 to Shk31m last year. Zim, the company's 49 per cent-owned shipping subsidiary, incurred a loss of US\$16m in 1996, compared

with net profits of US\$15m the year before. Its poor performance was also blamed for Israel Corporation's fourth quarter loss of Shk18m. Avi Mochlis, Jeruso

Czech bank 'to lift payout'

Komerçni Banka, the leading Czech commercial bank, reported a small rise in net profits for 1996, but promised to lift its dividend and increase the number of shares offered as Global Depository Receipts. In a difficult year for the Czech economy, Komercni's net profit rose 2.5 per cent, from 5.1bn in 1995 to Kč5.24bn (\$180m), calculated according to international accounting standards. Assets swelled to Kč446bn from Kč387bn. Loans grew from Kč217bn to Kč240bn, but provisions

against bad and doubtful debt fell from Kč28.5bn in 1995 to Kč25.7bn.

Komercni is also considering a new issue of GDRs to boost the number of foreign shareholders. Some 8 per cent of its shares are currently in GDR form.

Vincent Boland, Prague

Bank Handlowy sale approved

The Polish government has given the go-shead for the privatisation of Bank Handlowy, one of the country's argest. A total of 60 per cent of the equity will be offered domestically to institutional and retail investors, and abroad through Global Depositary Receipts. A further 30 per cent is to placed with long-term investors. The government, which is being advised by Schroders, expects to complete the sale within the next few months.

Christopher Bobinski, Warsau

REXEL

SPARBANKEN SVERIGE

Swedbank

REXEL REPORTS A 174 PERCENT INCREASE IN NET INCOME. GROUP SHARE

The Reset Board of Directors, challend by Alain Rest March 24, 1977 to approve the Ratel group's (1996 purest company and compositioned flatacies information Company and consolidated flutness research Consolidated sales in 1996 information to GBP 2053 smillers and 1995.

Constituted rules in 1995 inspirated to GBP 2353 million, representing a 10.5 period interest over 1995.

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the GRAT matternet (1) 1996 1999 Difference :
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remained at nearly the same level as the previous year, des the 0.3 percent impact of defiation. In fact, training progra in every group company in order to improve gross margin. In 1996, operating expenses in relation to sales were lower 18.6 percent, compared with 18.9 percent for 1995, the main reason being niventory and customer credit management improvements through rigorous application of credit risk and stock management techniques.

Personnel expense was also brought well under control and restructuring measures were taken in every area where the situation required, especially Genmany and Spain. Net operating income thus advanced from 5.0 to 5.1 percent

Net financial expense dropped from 0.4 to 0.1 percent of sales, for a saving of GBP 7.07 million, despite funding costs for cos and their integration.

This improvement is due to the impact over a full 12-month period of the year-end 1995 capital increase, to the decrease in 1996, from 6.8 to 5.2 percent, of the average rate of interest on borrowings, and to continued careful management of the provider of the careful management of the careful managemen

Net operating income covers financial expense 45 times overversus 13 times in 1995. REXELS.A. PARENT COMPANY ACCOUNTS Net income for the year was GBP 26.53 million, versus GBP 21,78 million for 1995.

DIVIDEND DISTRIBUTION The Board of Directors will recommend approval by the Arana General Meeting, to be held in Paris Wednesday, June 4, 1997 at 9:00 a.m., of a total dividend per share of GBP 3.68, including a tax credit of GBP 1.23. The total di financial year 1995 amounted to GBP 2.72.

SUBSEQUENT EVENTS The first two months of 1997 show the same trend as was seen during the second half of 1996; strong economic growth in the United States, with middling activity in France and

Rexel's strategy of growth through acquisitions continued to tes. Sunbridge in the United Kingdom, and the wh activity of ABB in Austria.

Lastly, Rexel disposed of its electronic components distribution subsidiary in France, Omnitsch Sertronique, as part of corporate focusing on distributing electrical parts and supplies.

GROUPE PINAULT-PRINTEMPS-REDOUTE

Saint-Gobain set to unravel shareholdings

last year by the acquisition be able to work in far more

ore than two years after it was first

seriously mooted,

the prospect of a merger

between Compagnie de Suez

and Lyonnaise des Eaux,

two of France's leading quoted companies, is head-

ing rapidly towards comple

By the time the boards of

the groups reconvene at the

end of next week, the finishing touches are likely to have been put in place to proposals which could trig-

ger an important realign-

ment in the European utili-

ties sector, and would

symbolise a transformation in French-style capitalism. In early 1995, Mr Jérôme

Monod, chairman of Lyon-

naise, the utilities and com-

munications group, held dis-cussions with the then

chairman of Suez, Mr Gérard

Worms, whose group was

When the financial mar-

kets caught wind of the pro-

posal, Lyonnaise's share

price dropped sharply, and

the initiative was rapidly

more positive when rumours

of a new round of courting

between Lyonnaise and Suez

trickled out earlier this year.

The changing sentiment was

largely the result of the

strategy launched by Mr

Gérard Mestrallet, who

replaced Mr Worms after a

boardroom coup in the sum-

He sold off much of Suez's

costly property lending and

development portfolio, dis-

posed of Banque Indosuez,

converted heavy debts into a

cash pile which now stands

at FFr5.4bn (\$959.4m), and

focused on two core activi-

ties: specialised financial ser-

vices and utilities, reinforced

mer of 1995.

Market reaction was far

under pressure from a rival

takeover plan.

tion this month.

By Andrew Jack

system of corporate crossshareholdings was dealt a

he would "significantly"

His action comes after a number of other French companies which were tightly linked have recently begun to unwind their mutual investments. This has been in response to a for the group of FFr4.3bn number of factors, including (\$764m) in 1996, compared the privatisation of the insurer AGF, the merger of insurers Axa and UAP, and restructuring at Crédit Lyonnais, the state-owned bank.

notably those in Générale

des Eaux, in which Saint-Gobain owns 9.6 per cent. cent of UAP before the merger with Axa. The cross-shareholding system was created in the

ble for Saint-Gobain to sell FFr3.9bn to FFr14.8bn. **PSC** to buy into

By Hilary Barnes

Malavsia's

of 27 ocean patrol vessels. Lauritzen will offer a further 27 per cent of the shares in the shipyard to Danish investors. If there are no takers. Mr Amin Shah, the Malaysian businessman who third-ranking insurance controls PSC, has an option

this will be taken in the 1996 accounts. Topdanmark, Denmark's company with premium

building operation has been

Danyard is expecting stake in UAP, the French insurer which earlier this year merged with its rival two high-speed Seajet ferries The chemical carrier order

DKr3.6bn. Some DKr560m of investors in UAP, including capital losses when they

from FFr744m to FFr777m.

cent stake in Lyonnaise, and significant cash. A takeover would be extremely costly, however, and the legal status of Lyonnaise's utilities contracts could be thrown into doubt and have to be renegotiated if it were taken Any form of operation on the public markets would also risk generating substantial goodwill and write-offs. as well as forcing an issue of new shares, which could prove dilutive for existing shareholders, reducing the

value of their investment. Dexia reports

Dexia, the Franco-Belgian banking group, yesterday unveiled net income up 10 per cent on a pro forma basis to FFr3.2bn (\$569m) for 1996, the first full set of results since its merger was finalised last year.

Mr Pierre Richard, chairman, predicted growth in its lending to French local authorities would rise in response to fresh demand for public infrastructure investments in 1997.

Dexia announced last month it would take up to 40 per cent in the Italian lender Crediop, after securing a 5 per cent stake in Banque Internationale à Luxembourg. Mr Richard said yesterday Dexia would "not remain inactive" dur-

ing the coming year, hinting at further investments. The group comprises Dexia France, quoted in Paris, and Dexia Belgium, partly quoted in Brussels, both of which hold 50 per cent stakes in the two oper-ating subsidiaries – Crédit Local de France and Crédit

Communal de Belgique. Dexia revealed that Crédit Local de France had increased the level of provisioning on its loan to Eurotunnel, the troubled opera-tor of the Channel tunnel rail link, to 45 per cent. This is well above the minimum level recommended last year by the French banking

It said it had taken the decision in the interests of prudence, and would review the risk after Eurotunnel published its results for the second half of the year. Crédit Local de France also sold its 0.5 per cent

Axa. It had bought the shares at the time of UAP's privatisation in 1993, and is expected to cause a loss of said the effect of the sale was neutral. That contrasts with other Banque Nationale de Paris, which reported considerable

> sold their stakes. Dexia reported banking income up 10 per cent to FFr12.6bn for 1996, and operating profits up 14 per cent to FFr6.1bn. Provisions rose from FFr180m to FFr291m and other charges increased more modestly

> Return on equity was 11.5 per cent, and the aim is to lift this to 13 per cent.

COMPANIES AND FINANCE: ASIA-PACIFIC

Japanese banks announce staff cuts and withdrawal from overseas operations

unveils wide-ranging overhaul

By Gwen Robinson in Tokyo'

SDAY APRIL 2 199

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Nippon Credit Bank, one of Japan's top 20 banks, yesterday announced a restructuring entailing complete withdrawal from overseas operations, staff cuts of more han 20 per cent and the sale of property including its. head office in Tokyo and

other domestic retail outlets. The bank is to sell Y300bn (US\$2.4bn) worth of new equity to other financial institutions to help rebuild its capital base, following write-offs of more than Y250km in bad loans over the The finance ministry con-

Hokkaido Takushoku, the

smallest and weakest of

Japan's top 10 commercial

kaido Bank, a leading

bank and reduce the com-

bined workforce by a quar-

ter, is the first to be inspired

by the Japanese govern-

kets over the next five years.

sign of more restructuring to

come in Japan's overcrow-

banking industry.

Analysts welcomed it as a

The merger, intended to

regional lender.

banks, is to close or sell all with rivals under the Japa-

foreign operations and nese version of Britain's big

merge next year with Hok- bang' financial market

create a "super regional" the merger is consummated

ment's plans for sweeping the commercial bank and

deregulation of capital mar- Y3,347bn from the regional

ded and under-profitable units, in the US, UK and

reforms."

NCB reshapes by ___

closing five outlets and seven representative offices overseas and selling affiliates outside Japan

acting head office building in Totoro, facilities and offices of all

doziestic outlate and other properties

cutting staff of 2,900 by 20 ber cant

paying no boxuses to executives and cities the transmity replacement by 50%

recalcing wages to other employees by 30 kgs.

Routdailing its time non-bank landers and also sony 4460m bad to see

essking financial help from the Bank of Japan to increase the capital by 4300bn twoody Abaning Long strains.

president of Hokkaido Taku- believe them all to be

unprofitable.

Hokkaido Takushoku had

long been rumoured to be

seeking a domestic merger

partner. The recent fall in

banks' share prices has

brought its ratio of capital to

risk-weighted assets below

the internationally accepted

minimum of 8 per cent, said

As a purely domestic Japa-

However, the merged bank

nese bank, it would only

will have to raise fresh capi-

tal to achieve even that, said

Ms Alicia Ogawa, analyst at

have to keep to a capital ade

quacy ratio of 4 per cent.

Japan banks merge

ahead of 'big bang'

shoku, said: "We need to

build a sound and strong

financial base to compete

The new bank, to be called

Shin Hokkaido Bank when

in April 1998, will have com-

bined assets of Y13,500bn (\$109.18bn), of which Y10,115bn will come from

partner. It will have 8,300

The commercial bank will

staff and 340 outlets.

firmed it had asked 12 com- ordinated loans and the purmercial banks and about 22 chase of preferred shares.

insurance companies to conTheir decision is expected by tribute capital through sub- June, the ministry said. The

bank, will contribute about Y80bn to NCB's capital increase from a special fund originally set up to deal with bad loans at Japan's failed jusen housing loan compa-nies, said Mr Yasno Maisushita, BoJ governor.

NCB, which has been struggling to dispose of more than Y1,000hn in bad losus, said yesterday it had revised down its earnings projec-tions for the business year ended Monday and now expects to report an unconsolidated pre-tax loss of and Nippon Assurance Y350bm, instead of Y70m m Finance Service - are esti-unconsolidated recurring mated to have combined

apan's top 20 banks

"不好。"这样是"**海**摩尼"便用"心神情况"。

TO THE PERSON AND LINE OF

42 625

year is likely to be Y285bn, a ruptcy at the Tokyo court. sharp reversal from the Most of their debts are non-bank's earlier estimate of a performing property-related Y15hn net profit. Stock market losses on NCB's equity in land prices after the col-portfolio contributed to the lapse of the bubble economy bank's poor results, with a era in the late 1980s. Y100bn appraisal loss on

holdings. The bank also announced the liquidation of three nonbank financial affiliates lenders without licenses to take deposits from the public. The three - Crown Leasing, Nippon Total Finance profit as previously proj-debts exceeding Y2,025bn

Bank of Japan, the central ected. NCB's net loss for the and yesterday filed for bankloans stemming from the fall

Banking analysts say liqnidation of the three will place extra strain on their creditors, including Mitsubishi Trust and Sumitomo Trust, both main creditor hanks of the NCB affiliates, and a network of agricultural-related financial institu-

NCB shares fell Y19 to close at Y261 on concerns about the restructuring plan.

ASIA-PACIFIC NEWS DIGEST

San Miguel hits Asian targets

San Miguel, the Philippine food and beverage giant, yesterday said it had achieved its objective of reaching critical mass in strategic Asian markets, and that it had expanded operations in China with the establishment of sales offices and distribution networks in 16 cities.

The group, which is facing increased domestic competition from Asia Brewery, owned by Mr Lucio Tan, the Chinese-Filipino tycom, has been forced to oncentrate on overseas markets through an aggressive 11.6bn expansion programme. Last year it opened two new breweries in China and one each in Indonesia and Hong Kong. Mr Andres Soriano, chairman and chief executive, said the group's overseas beer business had established "a critical mass of quality production causcity" in certain Asian markets and particularly China. It plans to extend its reach there to 36 cities within

Lane Crawford chief quits

Mr John Lees has resigned as chairman of Lane Crawford International, the troubled Hong Kong department store group, with effect from yesterday. His departure was attributed to age.

However, Mr Lees, aged 67, remains chairman of two other groups within Wheelock, which owns 71 per cent of Lane Crawford. Lane Crawford's latest interim results showed a net loss of HK\$90.8m (US\$11.7m) for the six months to September 30. The figures reflect the group's move into Singapore and the opening of stores pitched at younger customers in Hong Kong. Both the Singapore store and the Lane Crawford Express stores were shut down last year, resulting in the write-off of assets.

The new chairman will be Mr Gonzaga Li, who is already chairman of Wheelock itself, and chairman and chief executive of The Wharf (Holdings), which is 46 per Louise Lucas, Hong Kong cant owned by Wheelock.

Sales up at Indian Oil

Indian Oil Corp, India's only Fortune 500 company, lifted its sales of petroleum products in the year to March 31 by

5.2 per cent to 41.74m tonnes. IOC said its six refineries processed petroleum products

equivalent to more than 100 per cent of their rated capacity for the fourth consecutive year. The refineries processed more than 25.1m tonnes in 1996-97 at a capacity utilisation rate of 102.3 per cent. No comparative figure was given. IOC said it had projects under way worth more than Rs100bn (\$2.78bn) which were likely to be completed in the next two years. It said it also had "identified" several new projects valued at more than Rs300bn.

Tonu Tassell Bombau

dispose of its 20 foreign Salomon Brothers Asia. on its securities holdings. of outstanding loans, the units, in the US, UK and Hokkaido Takushoku yes Hong Kong, by the end of terday slashed its forecast of Y200bn in the previous year. Panel backs ANZ in | HK group buys into Yaohan row with Indian bank

Tony Tassell in Bombay

Australia and New Zealand Banking group (ANZ) said yesterday it could book a large abnormal gain after an Indian arbitration panel ruled in its favour in the company's long-running dispute with India's National Housing Bank, a subsidiary of the country's Reserve Mehta. Rank.

However, ANZ acknowledged that the verdict could still be appealed against. practice. Any gain is unlikely to be registered until the question

and ANZ's Grindlays subsidiary, one of the largest tion got under way. India, arose out of the Bom- reached at the weekend by a Guangzhou.

early 1990s.

with NHB cheques totalling press to be between Rs3.5bn just over Rs5bn (\$189m), despite the fact that these were made out in ANZ's specific provision in respect name and carried no of the Rs5.06bn payment, instructions to pay Mr on the basis of "firm legal"

- with NHB while arbitra-

account of Mr Harshad interest. Wachan retailing empire, for The alliance also allows expansion plans in China, Mehta, a Bombay broker at This interest has been HK\$134m (US\$17.4m), agen—Pacific Concord the use of where it has invested an the centre of the scandal, estimated by the Indian cies report from Hong Kong. the Yachan identity and the estimated \$350m.

and Rs4bn.

It has a branch in Shang-

hai and representative foreign-owned banks in The arbitration verdict, offices in Beijing and

Hong Kong arm of Ja

recurring unconsolidated profits – before tax and

extraordinary items - from

Y7bn to Y1bn for the year

just ended, because of losses

manufacturing and telecoms Pacific Concord and Yaohan Concord stores in China. company, is to buy a 19.87 for the development and Yaohan, which operates per cent stake in Yaohan operation of department more than 400 stores world-By Nikid Tait in Sydney and bay securities scandal in the two-to-one majority, proper cent stake in Yaohan operation of department more than 400 stores world-certy 1890s.

vides for the Reson to be International Holdings, the stores and supermarkets in wide, said the sale of the

The bank has bad debts of

Y936.5bn - a familiar legacy

of excessive lending against

overvalued property. The

debts represent 13.3 per cent

Pacific Concord Holdings, The deal is the first step in distribution of Yaohan the Hong Kong diversified forming an alliance between brand-name products to all

Hokkaido Bank has bad

The merger will take place

through a one-for-one share

exchange, valuing the new

group at Y142bn at the sus-

debts of Y166.5bn, or 6.3 per

cent of its loan book.

Sunway City buys theme park

Sunway City, a Malaysian property group, has emerged as the buyer of Australia's "Wonderland" amusement park, for around A\$50m (US\$39.1m). The park is located on 218.8 hectares of land in Sydney's western suburbs. It is the second Australian theme park to attract Asian interest recently. Last year, the "Dreamworld" amusement venture in Queensland was bought by Mr Kua Phek Long.

a Singapore businessman, for around A\$85m.

Comments and press releases about internation companies coverage can be sent by e-mail to international.companies@ft.com

advice from senior counsel". The Australian bank However, it is understood maintained it was following to have made an allowance normal securities trading within its general provi-But in late 1992, at the request of the Reserve Bank, ANZ has been given

of an appeal is resolved.

It was forced to deposit the approval for a branch dispute between NHB disputed amount – Rs5.06bn ing licence in Beijing. it was forced to deposit the 'approval for a branch bank-

ANZ did not make a

SALES FROM CONTINUING OPERATIONS in FF million 74,194

+36.2%

NET DEET AND

SHAREHOLDERS' EQUITY in FF million

1995

1006

1996

CONSOLIDATED INCOME STATEMENT 31.12.95 Change +3.6% +18.4% Operating income
Net financial expense
Income from ordinary adivisies before toxes +36.28 +36.28 +39.83 +33.68 +13.38 +31.76 -554 2,437 -171 1,549 503 1,739 1,516 Shore in earnings of equity affiliates Net income before amortization of goodwill. Net income for the period - Group shore 1996 1995 *Net soles published in 1995 (FF 77,799 million) were reclassified in 1996 further to the introduction of a new Group integrated management information system. III Group consolidated not sales for 1996 totaled FF 80,394 million, an increase of 3.6% on 1995. However, taking into account discontinued operations, notably Primatal and Pinauti-Equipment in 1995 and Villédair Europe and Vestro in 1996, this figure becomes 8.3%. **NET INCOME** in FF million

Europe and Vestro in 1996, this figure becomes 8.3%. An analysis of the travernents in net sales on a continuing operations basis shows the following:

In the Retail Division, sales improved 4.5%, and 4% on a proforma basis. Most noteworthy performers were La Redoute, Frace and Conforcing. Prisunic continued its policy of simming down the official store network and Pristemps sales were hit by the disruptions due to renovation work at the Housemann Bogship store, the bulk of which is scheduled for completion in September 1997. The Wholesale Division emjoyed growth of 8.3%. The 1.3% following no proforms basis is chiefly the upshed of a gloomy french construction industry, which hit Pinault-Distribution in particular, whish Reval sales have also been adversely affected by unforcerable trends in the price of copper and the listlessness of the German market.

revenues or the German market.

For the International Trade Division, growth of 47.4% includes the performance of Scoa, acquired in 1996. Removing Scoo from the equation, overall progress tabled 5.1%. Europharma, the pharmaceuticus arm of Scoa, posted growth of 7.6%. In step with the Group's international expansion drive, the share of net sales generated outside metropolitan France increased post the 30% mark.

generoted outside metropoliton France increased post the 30% mark.

In Consolidated operating income posted on increase of 18.4%, moving from FF 2,991 million to FF 3,540 million over the year. The 12.8% pro formal increase was the result of improved gross margin, thanks to more streamlined purchasing and fighter management of mark-downs and shinkage, whilst productivity gains and effective control over operating costs each made their controlution. Actual operating prolitobility consequently rose half a point to 4.4% against 3.9% in 1995.

In A sharp drop in net fiscanded expense, at FF 221 million compared to FF 554 million last year, was the continued result of folling average interest rates and reduced levels of indebledness, despite significant investments during the year.

In Non-recurring items, with a net charge of FF 239 million against FF 171 million for the previous year, includes the restructuring provisions recorded in the amount of FF 182 million.

In Congrete income tax for the year stands at FF 779 million, versus

■ Corporate income tax for the year stands at FF 779 million, versus FF 225 million for 1995. FF 525 million for 1995.

III Net income of consolidated companies improved to FF 2,070 million from last year's figure of FF 1,549 million, on overall increase of 33,6%.

III Goodwill amortization amounts to FF 225 million, opainst FF 223 million last year. This figure includes the additional amortization for Free and the Reset

III Share of earnings in equity offiliates made further progress of 13.3%. The Financial Services Division posted on 18.1% increase in its earnings contribution to the Group (up to FF 541 million) with new loan production and outstandings increasing 14.9% and 13.3% respectively over the year.

We Not income, Group share reached FF 2,065 million, up 36.2% on lost year's level of FF 1,516 million.

■ Earnings per share represented FF 92.20, up on the 1995 figure of FF 68.00. CONSOLIDATED BALANCE SHEET

(in FF million) 25,307 4,045 16,494 1,933 10,925 13,529 Found assets Working appried requirements Shareholders' equity (1) Provisions Nat indebtednes

PRINTEMPS-REDOUTE

PINAULT

CHOLIP SHARE, UP 36.2%

CHARE, OP 25.0%

CHARE, OP 25.0%

CHARE, OP 25.0%

CHARE, OP 25.0%

CHARE, OP 25.0%

CHARE, OP 25.0%

CHARE, OP 25.0%

CHARE, OP 25.0%

CHARE, OP 25.0%

CHARE, OP 26.0%

■ For the fourth year in succession, and despite external growth operations undertaken in 1996, the Group's debt/equity ratio tell from 66% of December 31, 1995 to 61% at December 31, 1996. # Not indebtedness stood at FF 10,865 million, slightly down on last year, and currently represents 3.2 years of cash flow against 4 years as at December 31, 1995.

OTHER MOVEMENTS

 \blacksquare Group each flow rose 20.5% from FF 2.760 million to FF 3,326 million over the year.

18 Total investments for the year were FF 3,930 collion, of which FF 1,100 million was given over to external growth operations and FF 1,400 million to capital expenditure. The Group data tapped up its status in various substitionies, taking its holding in Frace and Frace Beginsin to 100% and its holding in Read Inc. to 50%. The Group devoted FF 2,374 million to investment expenditure in 1995.

PARENT COMPANY RESURTS

Income from ordinary activities amounted to FF 677 million for the year to December 31, 1996 against FF 1,441 million the previous year. Net income fell from FF 1,482 million for 1995 to FF 1,174 million for 1996. The General Meeting to be held June 5, 1997 will be asked to consider a proposed distribution of dividend in the amount of FF 32 per share, net of a tax credit of FF 16. This dividend, up 30.6% on the previous year, is scheduled for payment on July 1, 1997. on July 1, 1997.

SALIENT FEATURES

in 1996, the key additions to the scope of consolidation wern Scoo, taken over by CFAO, and the companies acquired by Reval: Schäcke (Austria), Belan, Hügler HTF (Germany), Electra, Capi (Bady), Selga (Sweden), Utility Products Supply and Cable & Connector Warehouse (USA), as well as the Dutch company Wolff, in which Revel increased its state to 1,00%. Companies newly consolidated during the year will boost Group net sales by FF 5.3 billion on a full-year basis.

Existing activities were expanded: opening of new points of sale (Frac in Nontes, Monaco and Barcelona, Conforuma in Carcassonne, 19 Resel branches, 4 Cyrillus boutiques, etc.), development of la Redoute catalogues, buy-out of artificiates by Prisonic, acquisition of new distribution licenses in Africa by CFAO. Similarly, 1996 saw the first fruits of the Innovation drive with, in particular, the lounch of original concept astologues such as Brummell of Printemps and Webco at Resel, or the creation of innovative formats such as Oroania for lingerie and Frac Direct for Home & Leisure.

RECENT DEVELOPMENTS

Underlining its ambitions in terms of Asian expansion, Pinauli-Printemps-Radoute set up in early 1997 PPR-Asia, a structure designed to assist the Group in its plans for this part of the world. The signature of a cooperation agreement with Central Retail Corporation, Thailand and South-Cast Asia's premier distribution group, on March 15 is the first stage in larging the strategic allianate sought by PPR in order to step up its development. The first task of this agreement will be to prepare the groundwork for the arrival of Cantoroma in Thailand.

Since the year began, Resel has occurred the wholesale electronics business arm of ABB [Austria], worth some FF 400 million of annual sales revenues. Resel has also purchased a 100% stake in Sunbridge in the UK, which generates central net sales of around FF 70 million and Southland Electrical Supply in the USA (net sales FF 320 million). At the same time, Resel relinquished control over Omnitech Sertronique (net sales of FF 107 million), as its business - semi-conductor and electronic component distribution - was no longer within its core strategy.

Froc operad its fish store in Belgium, at Wijnegern, in the outsions of Aniwerp, and La Redoute lounched two brand new cotologues, Aqualiance (health and beauty) and AM-PM (home furnishings and decoration).

At the end of February, despite little change in the level of market demand noted during the second half of 1996, all divisions are posting gains in market share. Net sales are up 6%.

The Group will pursue its efforts to enhance internal productivity and development strategy in all its forms: organic and external growin, impossion and international expension.

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CREDIT RATINGS INTERNATIONAL

FT-Credit Ratings International provides the only comparative fisting of the credit ratings assigned to around 10,000 International borrowers by the world's leading rating agencies:

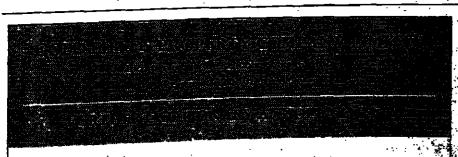
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 Nippon Investors Service Standard & Poor's S&P - ADEF Thomson BankWatch In addition multiple ratings of individual issuers are aggregated into the unique FT-CRI Composite index.

CREDIT RATINGS in emerging markets

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FT FINANCIAL TIMES Fangelal Publishins



Shareholders are referred to the previous cautionary announcements and are advised to continue to exercise caution in dealing in shares of the company. $(++)^{n}+(1,1,1), \dots, (n-1)$

Johannesburg

2 April 1997

1995 1995

שנגוו

Shareholdsen' equity (Orosip share

DEBT / EQUITY RATIO

1005

No t Daily

0.61 [1] of which Group share:

9:00 AM April 2, 1997

A lot can happen over night.

LONDON...Intertek Testing Services Ltd. (ITS) announced today that it began using a new corporate identity at all of its 176 laboratories and 342 offices worldwide.

The company was previously known as Inchcape Testing Services when it was purchased from Inchcape plc in October 1996.

As the world's largest product and commodities testing company, ITS offers manufacturers, distributors, retailers, commodity producers and government agencies client services

that include brand and trade names -Bondar Clegg, Caleb Brett, DEKRA Certification Services, ETL Testing Labs, Intertek Systems Registration, Labtest, SEMKO, TestMark and Warnock Hersey - recognized worldwide for product testing, inspection and compliance certification.

ITS credits over 7.500 employees around the world who helped make this corporate identity change smooth for its clients.

Intertek Testing Services http://www.itsglobal.com



UK Representative Office 36-38 Comhill, London, EC3V 3PQ, United Kingdom Tel.: 44(171) 929-0417, Fax: 44(171) 929-0418.

APPOINTMENTS

ADVERTISING

appears in the UK edition

every Wednesday &

Thursday and in the

International edition

every Friday.

For further Information

please contact: Toby Finden-Crofts

+44 0171 873 3456

Head Office 12 Vrubelya st., Moscow, 125060, Russia Tel.: 7(095) 752-7000. Fax: 7(095) 752-7005. Mezhcombank,

a Moscow-based

bank, announces the official opening of its

Representative office

in London.

(&)

C.P. POKPHAND CO. LTD.

US\$150,000,000

Floating Rate Notes

due March 1999

In accordance with the provisions of the Floating

Rate Notes, notice is hereby given that for the

period from 27/3/97 to 29/3/97 the Notes will carry

an Interest Rate of 6.775% per annum calculated

US\$17,502.08 per Note of US\$500,000

Standard & Chartered

Standard Chartered Bank

As Reference Agent

on a principal amount of:

Holders of Kemira Oy shares are advised that the Annual General Meeting of the company will be held at the Kemira House, Helsinki. on 22 April 1997 at 4 p.m. local time.

Shareholders wishing to attend the Annual General Meeting must be registered in the list of the company's shareholders kept by Finnish Central Securities Depositary Limited no later than 11 April 1997 and must inform the Company Secretary by 2 p.m. GMT on 18 April 1997 at the latest of their intention to participate in the meeting.

The invitation to the Annual General Meeting was published in major Finnish newspapers on 2 April 1997. For further information please contact Kemira Oy, Group Communications, fax +358 9 132 1627.





PERSONAL

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C.A. La Electricidad de Caracas SAICA-SACA U.S.\$39,836,000 In secondaries with the provisions of the Bonds, agains as hereby given than for the assess; Pedos level flacts 27, 1957 in Juhe 30, 1997 the Bondy off certy as interest Paths of 6,7102Fs, per amount. The interest proposal chief, Juhe 30, 1997 will be U.S. \$15.54 per U.S. \$1,000 principal sensers: O CHASE

Natio Finance Trust II U.S. \$129,880,000 Flordor Rate Notes due 1999 For the laterest Period Jist March, 1997 no 30th June, 1997 the Nones will curry a Rate of Interest of 8.2625% per amount. The Coupon Amount per original U.S. \$10,000 Note will be U.S. \$18.86 payable on 30th June, 1997.

COMPANIES AND FINANCE: UK

Amstrad sells digital mobile phone business for £92m

Bosch acquires Dancal

By Paul Taylor

Robert Bosch, the leading German car component and electronics group, has paid £92m (\$146.3m) to acquire the Dancall digital mobile telephone handset business from Amstrad, the UK per-

ics group.

Bosch said it planned to use Dancall, which is based in Aalborg in northern Denmark, as a springboard for a push into the fast expanding GSM digital telephone indus-

Mr Andreas Nobis, a board member, said the deal gave Bosch "immediate access to the latest GSM technology

"to combine Dancall's develon sales of £100m in the year ment in three and a half opment expertise with to June 30, Dancall was seen years." Bosch's brand name, international distribution capac-

He said the German group planned to retain the whole of Dancall's 600-strong workforce and to expand Dancall's manufacturing capac-ity from the current level of Im telephones a year to "more than two million a

For the UK group, which has undergone a wholesale restructuring over the past few years, the deal marks a further abrupt change in

recently begun to make a profit following a 26.8m loss six times return on invest-

as central to Amstrad's effort to refocus away from the commodity consumer electronics business and towards higher growth technology operations.

The surprise deal sent Amstrad's share price up 260 to 226p, its highest level this

suggestions that the German group was overpaying for a business which Amstrad bought out of receivership

However Amstrad, which has since invested about Although it had only £10m in Dancall, noted that the sale price "shows nearly

Amstrad, which already at the year-end, said it was considering ways "to return value to shareholders through a tax efficient mechanism." Analysts speculated that this could take the form of a special dividend pay-

Yesterday, Mr Alan Sugar Amstrad chairman, said "the virtues and potential of Danappreciated by the share holders or the financial institutions, principally due to

He said Amstrad had taken Dancall "as far as it

Pressac makes \$14m US buy

By Roger Taylor

Pressac Holdings, the electronic components manufacturer, has made its second acquisition this year with the purchase of Kaumagraph, a US supplier of dash-

board displays for cars.
It is paying \$14.4m cash for the company, whose customers include General Motors. It had sales of \$13.4m for the year to June 1996 and pre-tax profits of \$1.9m after stripping out costs of the head office, which is to be closed.

Pressac, which also announced a 28 per cent jump in interim pre-tax profits, only recently completed the purchase of Italamec, an Italian electrical components manufacturer, for £22.1m. That was funded by a £21m rights issue at 180p in December. The shares yesterday closed up 3p at 230%p. Analysts said Kaumagraph

ing of 50 per cent. Mr Geoff White, chief executive, said he was also looking at opportunities to expand into Latin America and hoped to make a further announcement later this

would give it a strong manufacturing base in the US. Pressac will be left with net

debt of about £12m and gear-

Pressac's profits rise from £2.28m to £2.91m (\$4.62m) in the six months to January 31 was fuelled by a 15 per cent increase in turnover to £36.1m, reflecting strong demand from car manufacturers. The automotive division saw a 22 per cent a flat car market in the US and sluggish growth in

Earnings per share rose to 4.98p, up 30 per cent on an adjusted figure for last year of 3.82p. The interim divifitted neatly with Pressac's dend is raised 11 per cent to existing businesses and 1.1p (0.99p).



Geoff White is now planning to expand into Latin America

	Turne	ver (25s)		e-tax It (2:m)	P	S (p)	Current payment (p)	Data of payment	Dividends - Corresponding dividend	Total for year	Total lest year
Bourne End	15.2	(15.6==)	0.666♠	(1.04 .)	0.78	(1.45)	0.65	July 3	0.65	1.2	1.2
Dentmaster & 6 mins to Dec 31 I	1.83	(2.63)	0.129	(0.304)	0.07†	(0.15)	-	-	-	•	
Gaskell Yr to Dec 31	43.7	(39.1)	1.21	(0.807)	16.4	(11.4)	3.2	July 4	3	4.8	4.5
Hit Entertainment - Yr to Dec 31	. 11	(9.4)	1,01	(0.527)	5.95†	(3.43)	0.5	June 11	-	0.5	• .
Premiere Yr to Dec 31 §§	25.8	(20)	0.792	(0.408)	16.9	(13)	4	. June 2	_=	. 4	
Pressac 6 mths to Jan 31	36.1	(31.2)	2.92	(2.28)	4.98	(3.82)	1.1	May 23	0.99	-	3.9
Recenter Mining Yr to Dec 31	3.19	(-)	3.67L	(1.9L)	10.6L	(6L)	-	-	-		-
SCI Ø	2.37	(2.03)	0.504	(1.59L♠)	3.54	(15.67L)		-	-	-	-
SEA Muttimedia 6\$ Yr to Dec 31-	3.94	(0.73)	0.713	(0.3431)	3.3	(1.87L)	-	-		-	-
Telegratifix Yr to Dec 31	130.3	(159.6)	6.93L.	(10.44)	4.21	(5.3)	1.45	July 1	1.45	1.45	1.45
Investment Trusts	. — . M	Y (p)		betable igs (2m)	Pr	(a) 2	Current psyment (p)	Date of payment	Corresponding dividend	Total for year	Total tast year
M Carrie Pacific Yr to Feb 28	174.2	(167.7)	0,601	(0.788)	1.47	(1.92)	0.9	June 28	0.9	0.9	0.9
Radiotrest Yr to Jan 31	128.8	(105.4)	0.215	(0.095)	2.5	(1.1)	2	June 30	0.6	2	0.6

ETBA

HELLENIC INDUSTRIAL DEVELOPMENT BANK S.A

ANNOUNCEMENT

PROCLAMATION OF PUBLIC INVITATION TO TENDER (AWARD TO THE HIGHEST BIDDER) FOR THE LEASING OF THE INSTALLATIONS OF "NITROGEN FERTILIZERS INDUSTRY S.A." (AEBAL) OR THE SALE OF ALL THE COMPANY'S SHARES PRESENTLY HELD BY ETBAS.A.

With respect to the above public invitation to tender, the proclamation of which was published on 18 February 1997 in the Greek and international press and which set the deadline for submission of offers on 31.3.1997, ETBA hereby announces that following the request of interested investors for more time in which to submit offers which, according to the proclamation, must be accompanied by a five-year business plan for the development of the company, investment programme, etc. the above deadline for the submission of offers is extended to Monday, 14 April 1997 at 14:00 hours.

It should be noted that no further extension will be given to the date of submission of offers.

> FMG MIR SICAV Société d'Investissement à Capital Variable IOA, Boulevard Royal, Luxembourg

R.C. Luxembourg B 53.392 NOTICE OF MEETING

Notice is hereby given that the Annual General Meeting of Shareholders of FMG MIR SECAV will be held at the Registered Office, 10A, Boulevard Royal, Limembourg, on Tuesday 15th April, 1997 at 11 a.m.,

for the purpose of considering the following agenda:

Management Report of the Directors for the year ended 31st December, 1996.
Report of the Statutory Auditor for the year ended 31st December, 1996.
Approval of the Annual Accounts for the year ended 31st December, 1996 and appropriation of the earnings.
Discharge to the Directors in respect of the execution of their mandates to 31st December, 1996.
Ratification of the appointment of one Director.
Election of the Directors for a new term of one year.
Election of the Statuary Auditor for a new term of one year.
To transact any other business.

The present notice and a form of proxy have been sent to all registered shareholders on record at March 24, 1997. In order to attend the Meeting, the owners of bearer shares are required to deposit their shares before April 7, 1997 at the required to deposit their source Registered Office of the Company:

Banque Paribas Luxembourg (OA, Boulevard Royal Luxembourg

The registered shareholders have to inform by mail [letter or proxy form] the Board of Directors of their intention to assist at the meeting before April 7, 1997.

By order of the Board of Directors

ISRAEL 2000 SICAV

R.C. Luxembourg B 47 222

NOTICE TO THE SHAREHOLDERS

Notice is hereby given that the ANNUAL GENERAL MEETING of the Shareholders of ISRAEL 2000 SICAV will be held at the Registered Office of the Company on 11 April 1997 at 10:00 are. AGENDA

1. Report of the Board of Directors,

2. Report of the Auditor;
3. Approval of the financial statements for the fiscal year ended on

Allocation of the ner result: 5. Discharge of the outgoing Directors and the Audiror, 6. Appointment of the Directors and Agents of the Company:

- Appointment of the Directors:

- Appointment of the Auditor, 7. Any other business.

The Shareholders are informed that no quorum is required for this Meeting and that the decisions are taken by a simple majority of the shares present or represented.

Each share is entitled to one vote.

Each Shareholder may act at any meeting by Proxe. For this purpose, proxies are available at the Registered Office and will be sent to Shareholders on request.

To be valid, the proxies duty signed by the Shareholders must be sent to the Registered Office in order to be received the day preceding the Meeting at 5 pm at the latest. The owners of bearer shares, who would like to attend this Meeting should deposit their shares at the Registered Office five working days

before the Meeting On behalf of the Company, BANQUE DE GESTION EDMOND DE ROTHSCHILD

LUXEMBOURG - Société Anonyme -

L-2535 LUXEMBOURG

Mediobanca International Limited

(incorporated with limited liability in the Caymen Islands) A member of the Mediobence Banking Group

Notice to holders of Mediobanca International 4 per cent. Notes due 1999 convertible into ordinary shares of Alleanza Assicurazioni S.p.A. (the «Notes»)

Notice is hereby given that a Board Meeting of Alleanza Assi-

curationi S.p.A. will be held on 4th April 1997 inter alia for the purpose of calling the Annual General Meeting of the Compamy to be held to adopt the Company's Accounts for the year ended 31st December 1996 and proposals relating thereto. Accordingly, pursuant to Condition 5 (A) of the Notes, Subscription Rights to the Company's shares will not be exercisable between 5th April 1997 and the last possible date fixed for the

Annual General Meeting, or where applicable, the day following the payment of any dividends, the distribution of which may be resolved by the Annual General Meeting.

COMPANIES AND FINANCE: UK

IM&S to

move into

mail order

Marks and Spencer, the

UK's favourite clothes

retailer, is to expand into

the mail order clothing busi-

ness following similar

M&S said it intended to

introduce a catalogue in

spring next year, with

regional trials featuring

selected ranges of clothes

before a definitive version is

The expansion of its mail

order operations follows the

success of Next, whose Next

Directory now accounts for

about a third of sales, and

Burton Group, which has

bought the Racing Green

It also comes at a time

when interest in mail order

has been heightened by the

sale of the Freemans cata-

M&S already sells £85m

(\$135m) of goods a year in

home furnishings, wine, hampers and flowers

through mail order. It

recently launched a business

clothing catalogue and is

logue business by Sears.

home shopping business.

clothing

By Christopher Price

moves by its rivals.

published.

Deal announced with Mannesmann Autocom

Trafficmaster set to move into Germany

By Haig Simonian, Motor Industry Correspondent

4

Trafficmaster, the traffic information provider, will today announce it is extending its system to Germany.

The agreement with Man-

nesmann Autocom, the German telecommunications group, marks the first step in Trafficmaster's drive to extend its patented system into continental Europe.

Mr David Martell, cofounder and chief executive said advanced talks with groups in France and the Netherlands were being held with a view to starting operations in the Paris region in early 1998 and in the Netherlands about six months later. He declined to forecast the

impact of the German deal on Trafficmaster, which reports 1996 results next week. Analysts expect the company, which was floated in 1994 and lost £2.4m (\$1.5m) on sales of £2.55m in 1995, to announce a similar loss on substantially higher said that he expected the Deutsche Telekom, expect to mer.

By Robert Corzine

Royal Dutch/Shell, the

Anglo-Dutch oil group, is in

the final stages of deciding

its response to a special reso-

lution from shareholders

demanding an improvement

in its environmental prac-

Shell Transport & Trading,

the London-based arm, will

disclose how it intends to

deal with the resolution next

week, when it publishes its

annual report.

tices and business ethics.

The deal with Mannesmann Autocom, the telecommunications subsidiary of the German industrial

group, should lift sales through a 12-year royalty on revenues for the German system, which has been on trial for the past 18 months.

Trafficmaster will also receive a fee for each traffic sensor site in Germany. Joint venture partners Mannesmann Autocom and

challenge, given that it has

It stems largely from con-

the backing of a significant

cern over Shell's handling of

the Brent Spar incident and

its operations in Nigeria, and

is supported by Pirc. the

investment consultancy. Pirc

said its clients held 12 per

The consultancy is keen to

see whether Shell's state-

ment on environmental pol-

icy, due to be published

cent of Shell's shares.

Shell has accepted that the "effective internal proce- their concerns.

minority of shareholders.

Shell to answer ethics

queries from investors

over 4,000km of autobahn this year and a further 4.000km by next summer. comprising about 75 per cent of the motorway network. The German system will

also allow Trafficmaster to

start selling its in-car hardware to German motorists and carmakers. Although the bulk of UK sales have been in the aftermarket, the company last September reached agreement with Vauxhall, part of General Motors, to install its

Mr Martell said extending the network to continental Europe would strengthen Trafficmaster's hand in talks with other carmakers.

voice-based system as origi-

nal equipment on the Vectra

One early deal in Germany could be with Opel, the German GM subsidiary, to install Trafficmaster hardware on German Vectras. In the UK, Mr Martell predicted Trafficmaster would sign up "at least two other major car makers by October".

The company is investing £10m to install sensors on turnover in 1996. Mr Martell T-Mobil, a subsidiary of UK trunk roads by next sum-

tion and monitoring of such

require its various national

operating companies to pre-

pare detailed reports on

their compliance with

environmental and corpor-

ate responsibility stand-

Shell has said: "There

would be no point in having

a global vision if there were

no clear cut lines of report-

ing or controls." It is

thought that the resolution's

backers might agree to drop

it if Shell's environment

Pirc wants Shell's to

resolution is an "unusual" dures for the implementa-

The resolution calls for report adequately add

policies'

also planning a schoolwear version for later this year. The company refused to comment on how much the venture would cost, or how many jobs might be created. However, analysts warned that the cost of launching a full-scale operation, particularly if it targeted the 5m M&S account holders, could be huge. They also warned of "cannibalisation", with existing customers choosing to shop at home rather than creating new business.

But there was also support for the move, particularly in the tentative method of introduction being employed by the company. "It's very predictable very low risk and will probably be very successful," the retail research consultancy. Verdict.

M&S is the UK's biggest clothing group, with a 15 per cent share of the marnearest rival, Burton.

LEX COMMENT

Share prices relative to the FTSE All-Share Index

MEPC

The last time there was a bid for a big UK property group, Hammerson was the target. But after four years of surgery from Mr Ron Spinney, chief executive, it has now turned aggressor. And it has picked a suitable target, even though its advances have so far been rebuffed. MEPC's management has been accident-prone, with mishaps from earthquakehit US properties to recession-hit UK developments.

Its debt financing is the costliest of the big property groups, its investment portfolio the most scattered, and its strategy has been rather fluid. It has therefore acquired several unhappy shareholders. Nonetheless, Hammerson will struggle to succeed. For starters, managements are rarely keen on proposals which damage their careers, so MEPC has unsurprisingly walked away from a friendly deal. Furthermore, Hammerson can neither offer a premium to MEPC shareholders - MEPC already trades at a premium to its net asset value - nor point to any obvious value that could be added from sticking the two together. There

Hammerson's only hope is to persuade enough big MEPC shareholders to force MEPC back into negotiations.

would be a few million pounds of cost savings, but they would have to focus on "management synergies", which are rather less compelling.

And there should be support for the argument that Mr Spinney could profitably reshape a messy MEPC portfolio as he did with old Hammerson. But that looks less likely to shake off shareholder lethargy than a bid premium.

NPI rebuffed AMP approach

By Christopher

Provident National Institution, the life insurer, said that Australian Mutual Provident had expressed a reviewed its strategy every "strong" interest in acquiring it, but the approach had been rebuffed because it wanted to stay mutual.

"We are not for sale. We think we are doing very well for our members as we are," said Mr Richard Hyman of said Mr Ian Martin, NPI flotation. Mr Martin said head of corporate affairs.

potential bidders - including mal offer from it. many of the companies who

acquired by Prudential Corporation for £2.8bn. AMP was one of the disappointed suitors.

Mr Martin said NPI year, based on what it considered best for policyholders, with the next such meeting scheduled for May. It has appointed Goldman Sachs as an adviser, but not with a view to an auction or there had been no contact He said NPI had been with AMP for several weeks. approached by a number of and there had been no for-

NPI has £10bn under mantish Amicable, the mutual holders.

societe d'un estissement à capital variable 35, boulevard Prince Henry, Luxembourg

ALLIANCE INTERNATIONAL HEALTH CARE FUND

RC Linembourg B 25 105

As the Extraordinary General Meeting of shareholders convened for March 26, 1997 was not able to deliberate and vote on the stems of the agenda as a result of a lack of quorum, the shareholders of Alliance International Health Care Fund are hereby reconvened to an extraordinary general which will be held in Luxembourg, 35, houlevard Prince Henri, on Monday, May 5, 1997 at 2:30 p.m. for the following

To approve the change of the name of the Fund from Alliance International Health Care Fund into ACM International Health Care Fund and to amend gracie 1 section 1 of the articles of incorporation

No quorum will be required but resolutions on the agenda of the extraordinary general meeting will be adopted if voted by two thirds (2/3) of shares present or repr

By order of the Board of Directors

R.D. Smart

FIDELITY SPECIAL GROWTH FUND Societé d'Investissement à Capital Varia Kansallis House, Place de l'Étoile B.P. 2174 L-1021 Lutembourg

R.C. B 20095 DIVIDEND NOTICE

At the Annual General Meeting held on March 27, 1997, it was decided to pay a dividend of USS 0.05 (cents) per share on or after April 25, 1997 to shareholders of record on April 3, 1997 and to bolders of beater shares upon presentation of coupons no 11.

Paying Agent: KREDIETBANK S.A. LUXEMBOURGOISE



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FT Surveys

LEGAL NOTICES

BRANDEIS LIMITED Purmant to Section 175 of the Companys Act 1985 Brandets Lumied ("the Company") hereby gives notice that

The Company appeared by writen respiration on 27th March 1997 persuant to Seepon 173 of the Companies Act 1985 a phymein out of capital for the purpose of the purchase by the Company of 1,449,378 of its own ordinary phases of £1 each.

The statutory declaration of the director and the auditors' report required by Section 173 of the Companies Act 1965 are available for inspection at 1 Munter Count, Minering Lane, London ECSR 7FE. Any creditor of the Company may at any time prior to 7 May 1997 apply to the court under Section 176 of the Companies Act 1985 for an order prohibiting the payment.

Dated 2 April 1997 Depton Hall Five Chancery Lane Landon EC4A (BU)

Telefonaktiebolaget LM Ericsson (publ)

The resolution is due to be towards the end of this

presented to Shell's annual month, will meet some of the

meeting in London on May requirements.

(LM Ericsson Telephone Company)

The Annual General Meeting of the Company will be held at the Berwald Hall, Strandvägen 69, Stockholm, at 5.00 p.m. on Friday, April 25, 1997.

The following items will be on the Agenda of the meeting

1. To elect the chairman of the Meeting

2. To elect two persons to approve the Minutes

3. To present the Annual Report and the Auditors' Report 4. To present the Consolidated Accounts and the Auditors' Report

5. To approve the Profit and Loss Statement and the Balance Sheet To approve the Consolidated Profit and Loss Statement and the Consolidated Balance Sheet for the Group

7. To discharge the members of the Board of Directors and the Managing Director from liability

8. To determine the appropriation of the profits, provided the Balance Sheet is approved

9. To fix the record day for payment of the dividend declared

To determine the number of members and deputy members of the Board of Directors and the number of deputy Auditors

11. To determine the remuneration payable to the members of the Board of Directors and to the Auditors

12. To elect members of the Board of Directors and deputy members

13. To elect Auditors and deputy Auditors

Shareholders intending to participate in the Annual General Meeting shall give notice of attendance to the Head Quarters of the Company, Corporate Legal Affairs, S-126 25 Stockholm. company, co1901a 2444 or 719 4498 between 10.00 a.m. and 4.00 p.m. daily, or by facsimile no. 448 (0)8 719 9527, not later than on April 22, 1997.

In addition to the above requirements, shareholders intending to participate in the Annual General Meeting must be entered in the share register kept by Vacrdepapperscentralen VPC AB (Swedish Securities Register Centre) not later than on April 15, 1997.

Shareholders, whose shares are registered in the name of a nominee must temporarily be entered into the share register in order to be entitled to participate in the Meeting. The shareholder is requested to inform the nominee in due time before Tuesday, April 15, 1997, when such registration must have been made.

In order to participate in and to vote as proxy on behalf of a Shareholde at the Meeting a power of attorney must be presented. The Board of Directors has proposed April 30, 1997, as the record day for payment of dividends. Provided this proposal is approved, the

April 1997

Project Control of the Control of th Property of the Control of the Contr



dividend is expected to be dispatched by Vaerdepapperscentralen VPC AB on May 9, 1997. The Board of Directors

(Incorporated in England under the Building Societies Act 1986) Issue of up to an aggregate of £200,000,000 Subordinated Variable Rate Notes with a maturity of 12 years (formerly Subordinated Vanable Rate Notes issued by

Halifax Building Society

Leeds Permanent Building Society) Notice is hereby given that for the three months interest period from March 27, 1997 to June 27, 1997 (92 days) the Subordinated Notes will carry an interest rate of 6.80625%. The interest payable on June 27, 1997 for the Subordinated Notes will be £171.55.

By: The Chase Manhattan Bank London, Principal Paying Agent

O CHASE



Telecom Italia Mobile

TIM - TELECOM ITALIA MOBILE S.D.A. Legal headquarters in Turin, Via A. Bertola n° 34 - Sub-office in Rome, Via L. Rizzo n° 22 Capital Stock 410.203.571.850 lt. L. wholly paid up Entered under n° 2582/95 in the Ordinary Section of the Company Register of Turn: TAX I.D. n° 06947890015

NOTICE OF ORDINARY MEETING OF STOCKHOLDERS

Stockholders are hereby convened to an Ordinary Meeting in Turin to be held in the Conference Room at Via A. Bertola nº 34 at 11.00 AM on April 24, 1997 on first call and, if necessary, on April 28, 1997 on second call at the same time and place to discuss and deliberate on the following.

Agenda

- 1. Financial Statements for the fiscal year ended as of December 31, 1996: Reports of the Board of Directors, the Board of Statutory Auditors and Indipendent Auditors, Related resolutions.
- 2. Resolutions on purchase operations of company stock.

3. Resolutions in accordance with article 2364 of the Civil Code, sub-paragraph 1, point 2.

Only Stockholders who have deposited their ordinary shares at least five days before the date set for the Meeting at the legal headquarters in Turin, Via A. Bentola nº 34, or sub-office in Rome, Via L. Rizzo nº 22, or at Monte Titoli S.p.A. for the securities which it manages or at the financial institutions listed below may attend the Meeting.

Banca Commerciale Italiana S.p.A., Credito Italiano S.p.A., Banca di Roma S.p.A., Banco di Napoli S.p.A., Banco di Sicilia S.p.A., Banca Nazionale del Lavoro S.p.A., Istituto Bancario San Paolo di Torino S.p.A., Banca Monte dei Paschi di Siena S.p.A., Banco di Sardegna S.p.A., Banca Nazionale dell'Agricoltura S.p.A., Banco Ambrosiano Veneto S.p.A., Banca Toscana S.p.A., Roto Banca 1473 S.p.A., Deutsche Bank S.p.A., Credito Bergamasco S.p.A., Banca Agricola Milanese S.p.A., Banco di Chiavari e della Riviera Ligure S.p.A., CAB - Credito Agrario Bresclano S.p.A., Banca Sella S.p.A., Banca C. Steinhauslin & C S.p.A., Banca Fideuram S.p.A., Citibank N.A., Banca Regionale Europea S.p.A., Banque Paribas, Istituto Centrale di Banche e Banchieri S.p.A. e Banche sue associate, Banca Popolare di Novara, Banca Popolare di Milano, Banca Popolare di Bergamo - Credito Varesino, Banca Popolare Commercio e Industria, Banca Popolare di Sondrio, Banca Antoniana - Popolare Veneta, Cariplo - Casea di Risparmio delle Provincie Lomberde S.p.A., Cassa di Risparmio di Parma e Piacenza S.p.A., Banca CRT S.p.A., Banca Carige S.p.A., CARISBO - Cassa di Risparmio in Bologna S.p.A., Cassa di Risparmio di Trieste - Banca S.p.A., ICCRI - Istituto di Credito delle Casse di Risparmio Italiane S.p.A., Casse di Risparmio e Monti di Credito su Pegno suoi associati, ICCREA S.p.A. - Istituto Centrale delle Banche di Credito Cooperativo.

Abroad: London:

Banca Commerciale Italiana S.p.A. - 42/46, Gresham Street - EC2V 7LA Credito Italiano S.p.A. - 17, Moorgale - EC2R 6AR Banca di Roma S.p.A. - 87, Gresham Street - EC2V 7NQ

New York:

Banca Commerciale Italiana S.p.A. - One William Street - N.Y. 10004 Credito Italiano S.p.A. - 375, Park Avenue - N.Y. 10152 Banca di Roma S.p.A. - 34, East 51st Street - N.Y. 10022 Morgan Guaranty Trust Company of New York - 60, Wall Street - N.Y. 10260

Paris:

Banca Nazionale del Levoro S.p.A. - 26, Avenue des Champs Elysées - 75008 Istituto Bancario San Paolo di Torino S.p.A. - Eschersheimer Landstrasse, 55 - D 60322

Frankfurt am Main: Lavoro Bank A.G. - Talacker, 21 - 8001 Zurich:

Buenos Aires:

Banca Nazionale del Lavoro S.p.A. - Florida, 40 - 1005

for the Board of Directors Avv. Vittorio Di Stefano Chairman of the Board

The Financial Statements and Reports of the Board of Directors, the Board of Statutory Auditors and the Indipendent Auditors will be deposited, according to law, at the legal headquarters in Turin, Via A. Bertola nº 34, sub-office in Rome, Via L. Rizzo nº 22, and will be available to stockholders. After April 21, stockholders may request printer proofs of the aforementioned documentation from the Turin and Rome office cited above. The storementioned documentation will be sent to stockholders who request the material in time by calling +39 6 39009021. The notice convening the Ordinary Meeting of Stockholders was published in the Official Gazette of the Italian Republic, Issue nº 76, Part II of April 2, 1997. A toil free number (167/691691) is available in Italy for all those interested

This notice can be found at the following internet address: http://www.tim.it. This notice is being published in accordance with regulations approved in Consob resolution n° 5553 of November 14, 1991.

Europe falls despite recovery in US

By Edward Luce in London

in New York

European government bond markets fell across the board yesterday in spite of the fact that US Treasurles recovered slightly from the losses seen in the previous two trading

Traders said the European markets were partly making up for the fact that they had been closed on Good Friday and Easter Monday and had been unable to mirror transatlantic fears that there might be further interest rate rises in the US later this year until yesterday.

"There's nothing specific happening in Europe to explain the bearish sentiment in every government bond market," said Mr Eric

"European markets are basically taking a negative suffered the most yesterday "European markets are

With interest rate futures pricing in a further 100 basis-point rise in the US Federal fund rate by the end of 1997, bond analysts pre-

for the European markets. More immediately, traders say that the markets are unlikely to show strong signs of life in the lead up to the US non-farm payroll data to be released on Friday. Economists say the knock-on effects of a rise in US employment by 200,000 or more could be severe.

"This is not 1994 but it would be foolish to expect the markets to do anything other than panic if the figures from the US are strong on Friday," said Mr David Brown, chief European economist at Bear Stearns in London, "Equally, if the data Fishwick, international are weak the markets could economist at Nikko Europe rally: that is the type of situation we are in."

Italian and Spanish bonds

cue from the US and look as investors fied the high-likely to continue to do so." as investors fied the high-yielders for German bunds. Traders said bunds were likely to continue to outperform other European markets as investors board the

"flight to quality". The Italian 10-year BTP dict a gloomy second quarter future fell by 1.04 to close at 123.89 in London. Spreads over equivalent German bunds widened slightly to close 194 basis points higher. The market continued to respond unfavourably to the Italian mini-budget, describing the measures as "unsus-

tainable" "As long as the [Romano] Prodi government is unable to push through structural as opposed to one-off reforms it will be unable to win the backing of the markets," said Mr Brown.

"The government is basically being held hostage by the Refounded Communists. Even if the budget deficit falls to 3 per cent, there is no guarantee it won't rise back to 4 per cent of GDP in 1998."

future fell by 1.32 to close at 110.08 in Barcelona. The German bund future

closed 0.57 lower at 99.44 in UK gilts also fell, in

that US rates will rise by

another 25 basis points at the next meeting of the US Federal Reserve on May 20. at bay. "We expect US rates to rise in May and again in July," said Mr Philip Tyson, at HSBC Markets in London. "There is a real reluctance to chase giit yields lower with

The spread on UK cash bonds closed almost flat at 184 basis points over bunds. Futures closed % down at 108計 in London.

market expectations as they

French OATs also closed lower, although some economists were speculating that the Bank of France might decide to trim the intervention rate by 10 basis points on the back of weak eco-

short-term rates into line with German rates. OAT futures closed 0.82 lower at 127.44 on Matif.

US Treasury prices were response to widespread fears modestly higher in early trading amid some signs that inflationary pressures on the US economy remain

Late in the morning in New York the benchmark 30year Treasury was up 1/4 to 94些, yielding 7.066 per cent, while at the short end of the maturity spectrum the twoyear note was in higher at 99H to yield 6.385 per cent. The June 30-year bond future climbed & to 107%.

Bond prices dropped immediately after the release of figures from the National Association of Purchasing Management, which showed a continued strengthening in the manu-

facturing sector. The NAPM index of hosiness activity rose to 55.0 in March from 58.1 in February and the employment index time in two years.

However, bond market investors took some comfort from the fact that the index of prices paid fell to 50.9 from 55.1.

Mr Kevin Sluder, senior government bond trader at First Chicago Capital Markets said "a lot of negative expectations were already priced into the market", so the positive news from the prices component produced a small relief rally. Still, he added, the figures appeared to be quite strong.

Mr Ed Yardeni and Ms Debbie Johnson, analysts at Deutsche Morgan Grenfell in New York, said that the best of all worlds: purchasing managers report that activity is expanding at the fastest pace in over two years, with no sign of price

The market's attention now turns to Friday's release of figures on March employCAPITAL MARKETS DIGEST

Saudi bank to set up UK-listed fund

The Saudi Arabian Monetary Agency (SAMA), the central bank, has authorised Saudi American Bank (Samba). which is 30 per cent owned by Citibank, to set up a London-listed closed-end fund to attract foreign investors into the Saudi market. The move represents the first tentative step by Saudi Arabia to open the country's embryonic capital markets to foreigners.

According to Sama, "Saudi Arabian Investment Fund (SAIF Ltd) [the London-listed company] will invest exclusively in the units of SAIF KSA (Kingdom of Saudi Arabia), which will in turn invest primarily in the shares of Saudi companies

Bankers in Riyadh said the fund's size was likely to be ground \$250m, allowing it to test the scale of overseas investor interest in the Saudi market without exposing Saudi Arabia to the risk of speculative trading. The London listing and the opening of subscriptions to the

fund were expected to take about three months. Mr. Ali Al-Shihabi, a director of Saudi-Hollandi (Saudi-Dutch) Bank, said: "Other joint venture banks will follow suit. The SAIF listing will open up a capital market the size of Israel's, but at levels which are currently undervalued. This and other funds will also bring foreign expertise and liquidity into the Saudi market."

Other hankers pointed out that although Saudi companies comprise 10 of the top 30 Middle East companies and market capitalisation is larger than srael's - some \$40hn-\$45hn compared with Israel's \$30hn there is no stock exchange in Saudi Arabia. Share dealing, which is done by telephone through a few brokers and local banks, is neither regulated nor transparent.

Until now share trading has been restricted to Saudi nationals, with a few companies, excluding banks, open to citizens of five other Gulf states. The Saudi government has a controlling share in four of the top 10 quoted non-bank companies. Trading volume last year was less than \$7bn, about one-third as much as in neighbouring Kuwait, whose market capitalisation is only half that of Saudi Arabia. The market's performance, however, has been steady. The national Saudi share index rose almost 12 per cent last year and has increased some 7 per cent so Robin Allen, Dubai far this year.

Record month for DTB

The DTB, Germany's futures and options exchange, set a record in March with more than 9m contracts traded, up from the previous record of 8.8m in January.

Total volume for the first quarter was 27.41m contracts, oughly 20 per cent more than in the first quarter of 1996. This compares with roughly 50m contracts traded on Liffe, the London derivatives exchange, in the past three months and 17m lots exchanged on Matif, the Paris-based

The Schatz future on two-year German government debt, launched by the DTB on March 7, saw 207,714 contracts exchanged.

Issuance slow after long Easter break

INTERNATIONAL BONDS

Syndicate managers, who

were expecting a rise in primary market activity after the Easter long weekend, yesterday at the slow pace of

"We were expecting activity to pick up after the FOMC meeting and the holiday," said one official at a bank in London. "Now that busiest house, leadthe rate rise is out of the way, the market is even largest issues. The first was more depressed by fears of \$300m of three-year notes for another Fed tightening."

WORLD BOND PRICES

nated bonds was limited to maturities of three and four

"Investors do not want to reduce their exposure to the dollar, because they expect the currency to remain expressed disappointment strong," said one banker. "But they are reducing the duration of portfolios, and sticking to shorter maturities [whose prices fall less when yields risel."

SBC Warburg was the managing the session's two Abbey National

The deal was priced to yield 12 basis points over US as "tight, but not overly aggressive" by a rival bank.

"This is a natural follow-up to a similar issue by Abbey National launched in February," SBC Warburg said. "It is designed to tap the same investor base." The February issue of three-year paper has seen its spread tighten to 2 basis

points, from 14 points at

Jul

-1.04 -1.04

1.19

0.44

1.17

Open Sett price Change

Open Sett price Change 93.40 93.04 ~0.82

Latest Change High 107-03 -0-04 107-14 108-20 -0-05 106-28

Low

SBC Warburg's second issue was \$300m of four-year notes for the European New international bond issues 100.00 100.00 Jul 1997 Jul 1997 Apr 2000 4.00 4.00

three-year Treasuries disyield was 9 basis points

One banker said the priccies that are expected to ing was "surprisingly tight, form the euro and become given market conditions." fungible into one large issue but added that the "EIR denominated in euros after European monetary union. always sells over time".

Syndicate officials said the • It remained unclear yespricing of the bonds against terday whether a rumour that Brazil was considering guised the fact that their so-called "parallel bonds" was an April Fool's day lower than the US yield hoax. Parallel bonds are issued in European curren-

One syndicate official said: "Issuing parallel bonds does not make sense for a non-European borrower."

Another maintained that Brazil had asked banks to submit bids on the deal. "They are definitely looking at the possibility," he said. "Maybe it is the Brazilians playing a joke on the

FTSE Actuaries Govt. Securities **UK Indices** 7.53 7.83 7.85 7.55 8.23 7.57 7.78 7.78 7.48 7.63 7.64 119.56 7.52 7.44 1 Up to 5 years (19) 119.36 3.40 5 yrs -0.17 5-15 years (20) Over 15 years (7) 2.23 15 yrs 8.16 20 yrs 2.37 kred.† 8.22 7.75 7.78 14B 94 Apr 1 Mar 27 Yr. ago

BENCHMARK GOVERNMENT BONDS IN BURD FUTURES OPTIONS (LIFFE) DM250,000 points of 100% Price change Yield ago ago 6.750 11/06 91.5870 +0.070 8.02 8.02 5.85 01/07 97.7500 -0.530 5.93 5.86 6.25 01/07 97.7500 -0.530 5.93 5.86 6.25 01/07 100.8500 -0.830 6.13 8.07 7.000 12/06 101.4100 -0.970 8.80 6.82 8.000 03/06 108.0200 -0.840 8.77 6.73 4.750 03/02 102.6355 - 4.90 4.74 5.500 04/07 97.1000 -0.490 6.89 5.74 6.000 01/07 99.8800 -0.530 6.00 5.83 8.000 01/07 99.8800 -0.530 6.00 5.83 Italy II NOTIONAL ITALIAN GOVT, BOND (STP) FUTURES 99.9600 -0.530
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105.2980 +0.280
99.1500 -0.610
115.3500 -0.651
107.3600 -1.302
103.7381 -0.690
18-05 -10/32
109-03 -18/32
199-03 -18/32
94-07 -16/32
104.7300 -0.880 M NOTIONAL UK GELT FUTURIES (LIFFE) 250,000 32nds of 100% Jun 108-19 108-11 -0-20 108-19 108-05 5508 Sep 108-00 108-00 -0-18 108-00 108-00 20 III LONG GILT FUTURES OPTIONS (LIFTE) 250,000 54ths of 100% **BOND FUTURES AND OPTIONS** ECU BOND FUTURES (MATIF) ECU100.000

-0.82 -0.62 -0.82 95.72 Sep

un Sep UK G	Open 99.60	Sett price 99,44 98,51	-0.57 -0.57	High 99.70 -	99.2 -	26 157563	Open int. 246991 2223	Jun Sep	•	125 124	our 5.96 4.57 so trec	Clo	Se Change	High 125.96 124.57 Interest. Eg	Low 125,70 124,57 L are for p	24	Open in n/a n/a
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CURRENCIES AND MONEY

Trade fears hit dollar

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By Emiko Terazono

The US dollar firmed against the D-Mark on expectations of a further American interest rate rise, but was sold against the Japanese yen on fears of trade tensions.

The sharp decline on Wall Street this week had little effect on currency prices. With traders in Europe back at their desks after the Easter holiday weekend, the dollar closed up 0.1 prennigs at DM 1.6697 against the D-Mark but fell Y0.77 against the Japanese currency to Y123.04. Sterling, meanwhile, was untouched by the slide in UK equities and closed up 0.9 pfennigs against the D-Mark at DM2.7493 and 0.4 cents against the US dollar at \$1.6486.

The dollar fell on signs of growing anxiety within Washington over Japan's expanding trade deficit

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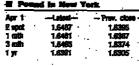
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within the US. A Japanese government official quoted Mr Newt Gingrich, the US House Speaker, as indicating wordes over Japan's trade surplus. Later, Mr Gingrich announced that for Japan to seek economic growth through predatory export policies and a restricted domestic market would inflame trade tensions.

In US trading later, the dollar was sold against the yen by US funds. This also triggered the D-Mark's decline against the Japanese currency. Nervousness over the yen is likely to persist ahead of the meeting on Fri-day between Mr Robert Rubin, the US treasury secretary and Mr Ryutaro Hashimoto, Japan's prime minister. "If the policy mak-



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ers perceive the top limit for the dollar/yen rate at Y130, current levels of the dollar are not great on a risk-reward basis," said Mr Paul Chertkow, global head of currency research at UBS in London. Traders are also focussin-

gon today's release of the

Bank of Japan's tankan

report, the quarterly survey on business confidence. Since 1993, according to Deutsche Morgan Grenfell, a weaker-than-expected tankan weighs on the yen, and vice versa. The Japanese yen has moved in the expected direction on the day of the tankan's release 11 out of 13 times. On the day of releases in which the results were worse than expected, the dol-lar rose all six times against the yen by an average of 0.37 per cent. Of the seven survey releases that were

higher-than-expected, the

dollar fell five times and rose

twice, for an average depre-

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ciation of 0.26 per cent.



■ The pound gained ground on expectations of a rise in interest rates after the UK elections on May 1 and signs of continued economic growth. Mr Don Smith at HSBC Markets said that the positive sentiment toward sterling had continued since last week's release of labour market statistics and average earnings data. Analysts expect the pound

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to strengthen further against the US dollar and other European currencies on the perception that the Labour party, which is forecast to come to power following the election, will increase rates. ■ Large lot purchases by a

Japanese bank briefly lifted the Australian dollar and the New Zealand dollar in earlier trading. Japanese inves-tors seeking higher yields provided support for the two currencies last year, by pur-chasing Australian dollar and New Zealand dollar denominated samurai bonds issued by sovereign borrow ers. Some analysts had hoped that the start of the new Japanese financial year

Day's mid high low

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would prompt a wave of sim-

But economic fundamentals point to stable monetary policy in the two countries. The Reserve Bank of Australia board, which held its monthly meeting this week, is expected to keep interest rates at current levels. With the rise in US interest rates, the maintaining of Austra lia's key money market rate at 6 per cent may dampen the appetite of Japanese investors for Australian denominated honds.

"Japanese buying will be there but it will be less of a positive for the Aussie dollar than it was last year," said Mr James Shugg, economist at Westpac Bank in London. He added that the Australian currency had yet to react to the US interest rate rise, and could decline if it reflected the move. Strategists predict the currency will trade within a range of \$0.78 and \$0.79 against the US dollar in the short term.

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EL JAPANESE YEN FUTURES (MAN) Yen 12.5 per Yen 100 Open Latest Change High Low Est. vol Open int. 0.8178 -0.0015 0.8281 -0.0024 0.8420 -0.8173 0.8281 0.8195 0.8151 0.8285 0.8281 70,003 918 380 Jun Sep Dec EL STERLEGO FUTURIOS (IMM) 582,500 per 2 1.8384 +0.0086 1.6448 1.8352 1.6420 +0.0058 1.6420 1.6420 -1.6400 - 1.8390 -1.6378 1.6420 16,263 33,156 21 810 2 93 EMS EUROPEAN CURRENCY UNIT RATES Rate Change % +/- from % spread Div. against Ecu on day __can. rate v weakest ind. Apr 1 Ecu cen. 5.81340 +0.01787 198.335 -0.079 0.738845 -0.001868 185.530 -0.075 2.19827 +0.0038 7.44085 +0.0031 1.9222 +0.00078 40.2941 +0.0189 13.7452 +0.0054 8.57978 +0.0054 3.05 2.89 10.62 1.28 1.10 1.02 0.91 0.87 0.45 0.00 5.85424 197.396 0.798709 163.826 -0.70 -0.54 -7.50 1.04 1.22 1.80 1.41 1.45 1.86 2.33 163.626 2.16979 7.34566 1.92573 39.7191 13.5485 6.45863 1906.48 NON ERM MEMBERS 295.269 310.005 +1.321 4.99 0.793108 0.711709 -0.002192 -10.26 sat by the Baropean Contribution, Cumercies with descard gas are for Extr. a possible change denotes a week currency. -2.53 14.04 E PHILADELPHIA SE E/S OPTIONS 981,250 (cents per pound) PUTS May 1.08 1.48 1.98 Apr May 2.13 2.92 1.87 2.36 0.76 1.83 Ąж 1.620 1.630 1.640 0.25 0.39 0.89 3.41 2.83 2.87 1.65 2.06 2.51 # PHILADELPHIA SE D-MARKE'S OPTIONS DM82,500 S per DM) - CALLS May 1.30 0.99 0.72 May 0.38 0.55 0.79 0.596 0.596 0.600 0.90 0.55 0.31 1.80 1.29 1.02 0.13 0.25 0.49 . 0.56 0.76 1.06 STHREE SIGNTH RURODOLLAR (MAN) \$1m points of 100% Low Est. vol Open Int. Open Latest Change .High. 94.02 +0.02 93.69 93.39 94.09 93.88 58,132 508,260 83.71 93.67 90,668 376,705 93.48 93.38 68,188 268,926

EASURY BELL PUTURES (MAN) Sim per 100%

MARK OPTIONS (LIFTE) DAITIN points of 100%

Sep Dec

0.19 0.18 0.06 0.09

94.56 94.55 76 6,944 94.25 94.24 84 2,882

PUTS

0.29 0.47

.0,47 0.83

V

0.19 0.38

0.02 0.07 0.27

94.58 94.25 +0.02

Péces Apr May Jun Sep Apr May 9650 0.24 0.25 0.26 0.21 0 0.01 9675 0.02 0.04 0.06 0.07 0.08 0.05 0.00 0.00 0.01 0.01 0.02 0.25 0.27 0.01 0.01 0.02 0.25 0.27 0.01 0.01 0.02 0.25 0.27 0.01 0.01 0.02 0.25 0.27

All Open interest Sign. are for pro

0,08

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COMPANY NOTICES

FÖRENINGSBANKEN AB (publ) NOTICE OF A MEETING

NOTICE IS A RECEIVED

of the holdices of the outstanding
US\$150,000,000 Housing Rate Notes date 1998

**ROBERTINGSBANKEN AB (publ)

NOTICE IS HERBEY CAVEN that a Meeting of the holders the "Notesholders" of the above Notes (the "Notesh Consease") will be field at the offices of Notron Rose, Kempson House, Carsonile Street, Loadon EC3A 7AN on 25th April 1997 at 12.30p.m. London times, or at each time therester as the Meeting conversed in respect of the US\$150,000,000 Floating Rase Notes to 2000 of the Company shall have been concluded or advounced, for the purpose of canadesing and, If thought Rt, passing the workation ast out below which will be projused by the Company as an Entandediary Resolution in accordance with the provisions of the listal agency agreement dated 2nd July 1996 (the "Focal Agency Agreement") between the Company, Tanken Trust Company the "Fiscal Agent" and Bankers Trust Lausenbourg, S.A. as Paying Agent (with the Fiscal Agent, togetier the "Paying Agent") relating to the Noise. SEXTRADEDINARY RESOLUTION

That this Meeting of the holders the "Noteshiders" of the outstanding US\$150,000,000 Floating Rate Noises date 1998 (the "Noteshiders") of Romeingsbanker AB (publ) ("Fiscal Agency Agreement") issued purposed as level agency agreement dated 2nd July 1996 (the "Fiscal Agency Agreement"); issued purposed as level agency agreement dated 2nd July 1996 (the "Fiscal Agency Agreement"); issued purposed by Fiscal Agency Agreement at the Agency Agreement and Conditions (the "Conditions") of the Notes Iss printed on the reverse three of and in the Fiscal Agency Agency Agency and Agency Agency Agency Aden and Agency Agency Aden and Agency Agency Aden and Agency Agency Aden and Agency Age

this Resolution, at passed, will modify the Conditions of the Notes by the deletion of paragraph (d) of Condition B of the Notes, and the industriation itsendor of a new paragraph (d). Under the terms of the proposed new Condition B(d) there would be no Event of Delault under the Notes if proceedings were commenced stating to a distriction of the Company or any of its Principal Subsidiaries as defined in Condition B of the Notes in the purpose of or in connection with (if a merger between the Company) and Spartharisen Service AB (pubb) assumes all of the obligations of the Company under the Notes and Coupons or (if in the case of a Principal Subsidiary) and another Subsidiary assumes all of the obligations of the Company under the Notes and Coupons or (if in the case of a Principal Subsidiary) and another Subsidiary as delined in Condition of the Company the Principal Subsidiary and another Subsidiary as delined in Condition of the Proposed Extraordinary Resolution are contained in an Explanatory Memorandum dated 2nd April 1997 prepared by the Company, copies of which are available for collection by Noteshchiers at the specified offices of the Payling Agusta for the Notes, the addresses of which are states the low.

The Company considers that the proposed essent to modification of the Conditions of the Notes contained in the Estanordinary Resolution as that above is fair and resonable in the characteristics and, accordingly, the Company strongly argus all Noteholders to other in Sacon of the Estanordinary Resolution.

The attention of Noteholders is particularly drawn to the quantum required for the Meeting and for

contained in the Estimatoriany Resolution set out above is fair and reasonable in the circumstances and, accordingly, the Company strongly organ 24 Noterholders to with in favour of the Estimatoriany Resolution.

The attention of Noterholders is porticularly drawn to the quorum required for the Meesing and for any adjourned Meeting which is set on in passgraph 2 of "Voting and Quartum" below.

Copies of the Flazal Agency Agreement finching, the currently applicable Conditions of the Notest and the Ammal Report and Accounts for the year ended 31st December 1995 for each of Notest and the Ammal Report and Accounts for the year ended 31st December 1995 for each of Notest and the Ammal Report and Accounts for the year ended 31st December 1995 for each of Notest and the Ammal Report and Accounts on the bloom of the State of the Notest and the Paying Agents are one below.

VOTENCA AND QUORACIM

A Notesholder volvining to altered and vive at the Meeting in person must produce at the Meeting either the Notest, or a wall voting certificate or walld voting certificates issued by a Paying Agent relating to the Notest, in respect of which to whites to voting to the Notest, in respect of which to whites to voting in the Notest, in respect of which to whites to voting in the Notest, in respect of which to whites to voting in person may either deliver his Notes or voting certificates; to the person he whites to voting in the Notest and the Notest and the Meesing in person to the Notest and th

voling certificates or being provies whatever the principal amount of the Notes 50 held or represented.

Every question submitted to the Meeting will be decided on a show of hands unless a poll is duly demanded by the Chairman of the Meeting or the Company or by one or more pustons holding one or more Notes or widing certificates for being provies and holding or representing in the aggregate not less than one-filteth in principal amount of the Notes for the time being outstanding. On a show of hands every person who is present in person and produces a Note or volking certificate or is a proxy shall have one vote. On a poil every person who is so present shall have one vote in respect of each Notes as produced or represented by the volking certificate or is a principal register. To be passed, the Europedicary Resolution requires a majority in favour consisting of not less than three-quarters of the votes cast. If passed, the Europedicary Resolution will be bridged on all the Coupophuldes valueing to the Notes.

Figure and Principal Paying Agent!

Fiscal and Principal Puying Agent Burkers Trest Company 1 Appoid Street London RC2A 2HE

Paying Agent
Sanker Trust Licenbourg S.A.
P.O. Box 807
14 Socievard F.D. Rossweit
Licenbourg ** FÖRENENGSBANKEN AT (publ)

2ml Amil 1997

Les Echos

The FT can belp you reach dditional business readers in rance. Our link with the Prenc osiness newspaper, Les Echos gives you a unique recruitment activertising opportunity to capitalist on the FT's European eadership and to further target the French business world. For information on rates and further details please telephone: Toby Finden-Crofts on +44 171 873 3456

WOOLWICH Building Society ~ \$175,000,000

Floating rate notes due 1997 Notice is hereby given that the notes will bear interest at 6.58984% per annum from 27 March 1997 to 30 June 1997. Interest payable on 30 June 1997 will amount to \$171.52

Agent: Morgan Guaranty Trust Company

per £10,000 note and £1,715,16

JPMorgan

per \$100,000 mote.

TANJONG

PUBLIC LIMITED COMPANY (Incorporated in England 1926 - Registration No. 210874) (Registered as a foreign company in Malaysia - No. 990903-V) NOTICE OF PROPOSED FINAL DIVIDEND AND

CLOSURE OF BOOKS NOTICE IS HERREST CIVEN that a final dividend of 15.4 am per share (after having taken account of Malaysian Income Tax at 30%) in respect of the financial year ended 31 January 1997 has been recommended by the Directors for approval by the members at the Seventieth Annual General Meeting of the Company, Subject to the following paragraph, the dividend, if approved, will be paid on 15 August 1997 to shareholders on record of the Company at the close of business on 18 July 1997.

Any employee of the Company who has mercised, or wishes to exercise, the option to subscribe for charms in the Company granted to such employee under the Company's Employees' Sharm Option Scheme should note that an employee exercising such an option is not entitled to any dividends which relate to a financial year that precedes the date of the employee's exercise of certice.

The Register of Members of the Company will be closed from 19 July 1997 to 26 July 1997 (both dates inclusive) for the purpose of determining shareholders' entitlement to the dividend.

sharehologer' environment to un covaccou.

Registrable transfers received by the Company's Brunch Registrats in Makayaia, Signet & Co. Sen Bal, at 11th Floor, Marsara Actan Universal, 54, Italea Registrats in the United Kingdom, Independent Registrats Group United, at Balloor Heave, 394/398 High Reach, Black, Exert ICS 1104, England, up to the close of business at 5.00 p.m. on 18 July 1997 will be registrated before entitlements to the dividend are determined.

PURTHER NOTICE IS HEREBY GIVEN that the Malaysian Central Depository Sdn. End. chall not be accepting any requests for deposit and/or withdrawal of shares commencing 12.30 p.m. on 15 July 1997 and; 12.29 p.m. on 18 July 1997. A Depositor shall qualify for entitlement only in respect of:

Shares deposited into the Depositor's Securities 12.30 p.m., on 15 July 1997;

Shares not withdrawn from the Depositor's Securities Account as at 12.29 p.m. on 15 July 1997;

Shares transferred into the Depositor's Securities Account before 12.30 p.m. on 18 July 1997 in respect of ordinary transfers;

Shares transferred into the Depositor's Socurities Account on or before 3.00 p.m. on 18 July 1997 in respect of express transfers;

Sharer bought on the Kunin Lumpur Stock Exchange on or before 10 July 1997.

1 April 1997

Vietnam moves to deregulate rice business

By Jeremy Grant in Hanoi

Vietnam is to prise open its tightly controlled domestic and export rice businesses by decen-tralising the allocation of rice export quotas and abolishing barriers that choke internal trade.

Analysts welcomed the moves as a significant step in liberalising the country's rice market and unlocking further export potential. Vietnam was the world's second largest rice exporter after Thailand last year, when the staple earned Hanoi about \$1bn in

However, the new rules, confell short of allowing private sector participation in rice exports, even though it is the key force in production and distribution.

The World Bank and other agencies have long urged this as a way of spurring competitiveness in Vietnam's rice industry and boosting export revenue Under the decrees, Hanoi set a

rice export quota for March to September of 2.5m tonnes. Previously, the quota was allocated to two food trading compaThey kept the lion's share, parcelling out the rest to 13 other state companies with export licences. It was a restrictive regime that

allowed the Vinafood monopoly to exploit differentials between local and international rice prices, effectively imposing a tax on farmers and capping productivity. However under the new rules, two-thirds of the quota will be handed directly to 14 provinces, most located in Vietnam's "rice bowl" Mekong region.

They in turn can nominate one or more enterprises for direct rice exports, although the rules do not

stipulate the criteria to be used in by the provinces themselves," making the choice. The immediate said Mr Francesco Goletti of the effect will be to increase the number of companies allowed to Rice Research Institute. export to 21, including both Vina-

The development also has political significance. It represents a victory for those in Hanot who have been advocating reform. over the entrenched interests of both Vinafood companies.

"Having given the power to the The next steps towards full liberalisation are likely to be pushed

Washington-based International

The decrees also abolish taxes and cumbersome licensing procedures that have seriously hindered the trading of rice between Vietnam's provinces, in particular between the north and south.

That should stimulate trade within Vietnam, allow for a more efficient marketing system and provincial authorities, it will be allow prices to be set by supply almost impossible to withdraw it. and demand, rather than largely by the Vinafood monopolies, as

organisations and individuals "who satisfy the necessary requirements" to deal in domestic rice trading. That in theory would open the way for small, private entrepreneurs but the criteria for entry appear to render that a

remote possibility. Mr Nguyen Dang Chi of the trade ministry says entities must secure a "business certificate", have minimum paid-up capital of 50bn dong (\$4.5m) and have been private companies are large

Soyabean futures up on data revision

By Laurie Morse in Chicago

Sovabean futures prices on the Chicago Board of Trade soared yesterday after the US Department of Agriculture offered its own version of an April Fool.

The agency confessed to a mathematical error in the quarterly grain stocks report it had released on Monday, and offered a revision for soyabean supplies that sparked frantic trading in the futures pit.

The agency on Monday had said that US soyabean supplies as of March 1 were 1.078bn bushels. However, on Tuesday morning it revised that figure downwards by 22m bushels to 1.056bn bushels.

Soyabean futures prices for July delivery scored a contract high of \$8.88 a bushel, and for May delivery a contract high of \$8.85% after the announcement. Both contracts briefly hung at the highest allowable advance for a day, up 30 cents a bushel, before fading back slightly.

This is the first time in 30 years that the USDA has made this kind of error, said Mr Joe Victor, analyst with Allendale. "Soyabean stocks are extremely tight, and this just caught everyone by surprise."

The USDA report provided a snapshot of sovabean stocks in place on March 1. The agency will give its estimate for year-end stocks of soyabeans on April 11 in a regular monthly report. Last month it estimated the US soyabean carry-over at year-

end at a thin 140m bushels. Traders said that government statistics released last Thursday showing domestic soyabean processing remained remarkably high given the extent of the soyabean price rally this year.

"We still have not got prices high enough to ration demand," said Mr Victor.

Crude oil prices drop

MARKETS REPORT By Robert Corzine, Kenneth looding and Gary Mead

Crude oil prices fell yesterday as the impact of last week's production cuts in Nigeria began to fade.

Royal Dutch/Shell, the largest operator in Nigeria. reported that output in the Niger River delta was returning to normal after protests by disgruntled local residents last week forced the closure of a number of oil processing stations and production cuts of around 210,000 barrels a day.

The price of Brent Blend, the international benchmark, was quoted at around \$19.12 a barrel in late London trading. 26 cents down on its close last Friday.

The heavy blizzard that hit the north-eastern US over the past few days had little impact on prices but gas oil futures – which are sensitive to big changes in weather patterns - closed down \$1.25 to \$165.50 a tonne on London's International Petro-

A big fall in London Metal Exchange zinc stocks helped to propel the metal to a 41/4year peak, taking it above \$1,300 a tonne again. The

LME zinc stocks have fallen by 60,750 tonnes in the first

quarter of this year. Traders suggested the stocks fall was caused by a one-off purchase by a North American zinc producer run-

ning short of the metal. Mr Adam Rowley, analyst at Macquarie Equities, part of the Australian banking group, said the market had been rife with rumours of a big rise in stocks because of a delivery into LME warehouses from China.

May futures for robusta coffee in London opened higher, reaching a peak of \$1,660 a tonne. However, early gains were trimmed as a result of increased producer selling. At the close, May futures were down \$23 on the day at \$1,612 a tonne, with some analysts saying the market was experiencing a static, post-holiday feel. In New York, May futures in mid-morning trading fell 4.15

LIME WAREHOUS (As at Thursday's tonnes		KS
Atuminium Atuminium atlov	-2,525 -200	to8

tonnes		
Aluminium	-2,525	to 853,000
Aluminium edgy	-200	to 72,400
Copper	-6.225	to 177.25
Lead	-500	to 108,925
Nickel	-240	to 47,382
Zinc	-13,025	to 446,075
10-	ο0	M-10 175

Good start to season for Indian tea

By Kunal Bose in Calcutta

Tea prices are strong in India as the new season crop starts to arrive at the auction centres in small quanti-

Mr P.K. Sen, chairman of J. Thomas, the world's largest tea broker, said it was too early to estimate the size of the 1997 Indian crop. "But the domestic demand for tea is growing so strongly that we expect it to fetch good prices throughout the season," he said.

Prices of all grades of CTC (cut, tear and curl) and orthodox tea are exception-

ally firm. The crop in March the first big tea-growing month in India, was down at least 30 per cent on the 32.3m kg of the same month last year. Even though India had a record crop of 780m kg in 1996 against 753.9m kg in the previous year, the current season opened with virtually no stocks, which boosted

Mr Vijay Dudeja, chairman of the Paramount Tea Marketing tea broker, said a new season usually started with stocks of 20m kg to 30m

stocks in 1997 and a poor crop in the first quarter led to the cancellation of a cou-ple of auctions in March," said Mr Dudeja. "Prices,



Weather permitting, India's tea growers should achieve their production targets and good prices are expected to prevail

which started improving in December, continue to harden with every auction."

The shortage and high prices of coffee have also raised demand for tea, which The negligible opening remains the cheapest of all recent rise in prices.

beverages in spite of the all difficult to raise tea According to industry officials, the country could still "We expect bigger buying achieve the Indian Tea from Russia, Poland, Iran

Board production target of and several other west Asian 800m kg in the current year. provided the growing centres receive regular rain from now on and the winter does not set in early. They do not think it should be at exports to 165m kg from nearly 154m kg in 1996.

countries," said Mr Sen. "Iraq is back in the market. Exports to the UK will be held around 30m kg. Our advantage is that our tea is cheaper than Sri Lankan and Kenyan tea. Interestingly. the merchant exporters in Sri Lanka have started buying tea from us to honour

The trade officials think that good liquoring tea, which is much sought after both within and outside the country, will fetch a very high premium over medium and plain tea. More and more tea gardens in Assam and West Bengal are changing their agronomic and processing techniques to make good liquor-orientated tea.

JOTTER PAD

COMMODITIES PRICES

BASE METALS **LONDON METAL EXCHANGE** ed Metal Trading)

1603-04

1637-38

AM Official	1602-02.5	1637.5-38
Kerb close		1630-31
Open int.	267,058	
Total daily turnover	56,173	
R ALUMINIUM AL	LOY (5 per to	nne)
Close	1510-15	1537-40
Previous	1505-15	1535-40
High/low	.=== ==	1540/1537
AM Official Kerb close	1505-08	1537-40 1530-35
Open int.	5.852	1530-35
Total daily turnover	1.533	
■ LEAD (\$ per ton		
Close	695-7	685-6
Previous	697-8	687-8
High/low	898	689/687
AM Official	697-6	688-8.5
Kerb close		688-9
Open Int.	39.308	
Total daily tumover	7.560	
MICKEL (5 per t	Onne)	
Close	7815-25	7730-35
Previous	7610-20	7720-25
High/low AM Official	7660	7820/7730
Kerb close	7659-60	7765-66 7755-60
Open int.	49,697	7733-00
Total daily purnover	17,393	
■ TIN (\$ per tonne	1	
Close	5830-40	5860-65
Previous	5860-70	5875-80
High/low	5865/5860	5895/5845
AM Official	5860-65	5885-90
Kerb close		58 55-6 0
Open Int. Total daily turnover	16,344 3,214	
ZINC, special h		or toonel
Close Previous	1278.5-79.5 1265-6	1297-98
High/low	1500-0	1284.5-5.5 1310/1291
AM Official	1278-79	1296.5-97
Kerb close		1308-09
Open int.	96,482	
Total carly turnover	36,162	
COPPER, grade	A (S per tonn	e)
Close	2405-08	2356-57
Previous Linda Cons	2425-7	2366.5-7.5

HIGH GRADE COPPER (COMEX) 112.40 -2.15 114.50 111.80 631 3.850 111.60 -1.40 112.60 110.20 2,909 23,534 109.20 - 109.20 109.20 108.70 -0.85 108.70 107.20 106.00 -0.55 106.00 105.20 3,878 54,205 PRECIOUS METALS

III LME AM Official E/S rate: 1.64 LME Closing E/S rate: 1.6471

Sent: 1,5485-3 mile: 1,5463-8 mile: 1,6441-9 mile: 1,6416

High/low AM Official

■ LONDON BULLION MARKET (Prices supplied by N M Rothschild Gold(Troy oz) 5 pnce 350.30-350.70 349.85 212.84 503.38 350.00 212.68 504.18 350.90-351.30

ng Plates (Vs USS) ..4.52 6 months .4.45 ..4.45 503.50

906.45 306.45 310.75 509.95 516.70 530.05 50-52

Precious Metals continued GRAINS AND OIL SEEDS ■ GOLD COMEX (100 Troy oz.; S/troy oz.) -1.0 351.6 349.2 2,547 2,322

Jen	353.2	-0.6	354,4		27,609	
Amg Oct	356.0	-0.6	356.8	355.0 358.4		13,199
Dec	358.9 361.8	-0.4	358.9 361.9	361.5	37 188	5,657 21,731
Total		-4/1	~.~			151,589
B PL	ATINUM	NYM	EX (50 °	Troy or	.; \$/bc	y oz.)
Apr	368.5	-0.3	370.0	368.5	2,707	3,464
Jul	373.5	+1.2	374.9	372.0		10,458
Oct	376.5	-	376.5	376.5	171	2,032
Jan	377.2	+0.3	377.2	377.2	8	1,147
Total					-	17,446
	LLADRA					<u> </u>
Jum.	150.25	+255	150.45	147.70	286	7,937
Sap Dec	148.20 150.00	-	150.00	- 	13	1,784 190
Total	ISOLOG	_	130.00	130.00	298	9,682
	VER CO	WEX 15.	000 Tro	raz: C		-
May	502.5	-5.0	508.5		22,717	
Jel	502.5 507.5	-5.0	512.5	507.0		19,777
Sep	514.0	-3.5	518.0	514.0	107	3,400
Dec	521.0	-43	524.5	520.0	86	5,232
Jan Mar	527.0	-	533.5	533.5	1 8	14 5.366
Total	533.5	-	277.3	202.0		91,324
					•	•
EN	FRGY	•				
	ERGY		EX (1.0	00 bar	rek S/	barrell
	UDE OIL	. NYM	EX (1,0	00 bar	rels. S/	
	UDE Oil	. NYM		00) bar	rels. <i>S/</i> Val	Darrel) Open Int
	UDE Oil	NYM Day's		Lów		Oper
III CF	Lifest price 20 44 20.43	Day's change +0.03 +0.01	High 20 65 20.62	Low 20.25 20.26	Val 32,061 10,825	Open Int 90,245 61,571
May Joe Jel	Lutest price 20 44 20.43 20 43	NYM Day's change +0.03 +0.01 +0.05	High 20 65 20.62 20.56	20.25 20.26 20.28	Val 32,061 10,825 4,375	Open Int 90,245 61,571 29,556
III CF	Lutest price 20 44 20.43 20 43	NYM Day's change +0.03 +0.01 +0.05 +0.13	High 20 65 20.62	Low 20.25 20.26	Val 32,061 10,825 4,375 1,701	Oper Int 90,245 61,571 29,556 22,292
May Jos Jol Aug Sep Oct	Lutest price 0 20 44 20.43 20 43 20 47	NYM Day's change +0.03 +0.01 +0.05	High 20 65 20.62 20.56 20.49	20.25 20.26 20.28 20.33	Val 32,061 10,825 4,375 1,701 515	Open Int 90,245 61,571 29,556
May Jon Jol Aug Sep Oct Total	20 44 20 43 20 47 20 35 20 36	NYM Day's change +0.03 +0.01 +0.05 +0.13 +0.03 +0.03	High 20 65 20.62 20.56 20.49 20.35 20.35	20.25 20.26 20.28 20.28 20.33 20.32 20.32	Val 32,061 10,825 4,375 1,701 515	Open Int 90,245 61,571 28,556 22,292 13,916 14,046
May Jon Jol Aug Sep Oct Total	Lutest price 20 44 20 43 20 43 20 47 20 35	NYM Day's change +0.03 +0.01 +0.05 +0.13 +0.03 +0.03	High 20 65 20.62 20.56 20.49 20.35 20.35	20.25 20.26 20.28 20.28 20.33 20.32 20.32	Val 32,061 10,825 4,375 1,701 515 540	Open Int 90,245 61,571 28,556 22,292 13,916 14,046
May Jon Jol Aug Sep Oct Total	Litest Litest Litest Price 20 44 20 43 20 43 20 47 20 35 20 36 Litest	NYM Day's +0.03 +0.01 +0.05 +0.13 +0.03 +0.03 +0.05 Day's	High 20 55 20.62 20.56 20.49 20.35 20.35 20.35	20.25 20.26 20.28 20.33 20.32 20.34	Vol. 32,061 10,825 4,375 1,701 515 540 55,775	Open Int 90,245 61,571 29,556 22,292 13,916 14,046 386,968
May Jon Jul Aug Sep Oct Total	Lifest price (20.44) 20.43 20.47 20.35 20.36 Lifest price (20.45) 20.36	NYM Bay's +0.03 +0.01 +0.05 +0.13 +0.03 +0.05 Day's	High 20 55 20.52 20.56 20.49 20.35 20.35 5/barre	20.25 20.26 20.28 20.33 20.32 20.34	Val 32,061 10,825 4,375 1,701 515 540 55,775	Open Int 90,245 61,571 29,556 22,292 13,916 14,046 98,988
III CF Iday Jen Jel Aug Sep Oct Total III CR	Liber Off Libert Price (20.44 20.43 20.43 20.43 20.35 20.35 CUDE Off Libert Price (19.13	NYM Day's +0.03 +0.01 +0.05 +0.03 +0.03 +0.05 Day's change -0.25	High 20 55 20 56 20 56 20 35 20 35 20 35 5/barrel	20.25 20.26 20.28 20.33 20.32 20.34	Val 32,061 10,825 4,375 1,701 515 540 55,775 Val 20,565	Open Int 90,245 61,571 29,556 22,292 13,916 14,046 198,988 Open Int
May Jon Jul Aug Sep Oct Total	Libert Off Libert Price (20.43 20.43 20.43 20.35 20.35 CUDE Off Libert Price (19.13 19.28 20.86 20.80 20.80 20.80 20.80 20.80 20.80 20.80	NYM Day's change +0.03 +0.01 +0.05 +0.13 +0.03 +0.06 IPE (Day's change -0.25 -0.20	High 20 55 20.62 20.56 20.35 20.35 5/barres 1927 1839	20.25 20.26 20.28 20.32 20.32 20.34	Val 32,061 10,825 4,375 1,701 515 540 56,775 Val 20,565 5,652	Open Int 90,245 61,571 29,556 22,292 13,916 14,046 196,988 Open Int 56,485 33,253
III CF Jun Jun Jun Aug Oct Total III CF Aug Jun Aug	Lifest prion (20 44 20.43 20 43 20 45 20.35 20.36 Lifest price (19 13 19.28 19.27 19.29	NYM Day's -0.03 +0.03 +0.05 +0.13 +0.05 +0.13 +0.05 Day's -0.25 -0.20 -0.18	High 20 65 20.62 20.56 30.49 20.35 20.35 5/barrel 19.27 19.40 19.39	20.25 20.25 20.28 20.32 20.32 20.32 20.34	Val 32,061 10,825 4,375 1,701 515 540 56,775 Val 20,565 5,652	Open Int 90,245 61,571 29,556 22,292 13,916 14,046 198,988 Open Int
May Jon Jon Sep Oct Total El CR	Liber Off. Libert price 20 44 20.43 20 47 20 35 20.36 Libert price 19 13 19 28 19 27 19 29 19 40	NYMA Day's change +0.03 +0.03 +0.03 +0.03 +0.05 -0.13 -0.05 Day's change -0.25 -0.20 -0.18 -0.06	High 20 55 20.62 20.56 20.49 20.35 20.35 S/barrel 19.27 19.39 19.40	20.25 20.26 20.28 20.33 20.32 20.34 20.34 19.01 19.01 19.19 19.25 19.21	Vol. 32,061 10,825 4,375 1,701 515 540 555,775 555 1,315 671 31	Open Int 90,245 61,571 29,556 12,232 13,916 14,046 198,988 Open Int 58,485 39,253 16,239 8,115 6,657
III CF Jun Jun Jun Aug Oct Total III CF Aug Jun Aug	Lifest prion (20 44 20.43 20 43 20 45 20.35 20.36 Lifest price (19 13 19.28 19.27 19.29	NYM Day's -0.03 +0.03 +0.05 +0.13 +0.05 +0.13 +0.05 Day's -0.25 -0.20 -0.18	High 20 65 20.62 20.56 30.49 20.35 20.35 5/barrel 19.27 19.40 19.39	20.25 20.25 20.28 20.32 20.32 20.32 20.34	Vol. 32,061 10,825 4,375 515 540 55,775 Vol. 20,565 5,652 1,315 671	Open Int 90,245 61,571 29,556 14,046 14,046 198,988 Open Int 58,485 38,253 16,239 8,115 5,260
May Jon Aug Sep Oct Total Aug Sep Jul Aug Sep Oct Total Total Total Total Total Aug Sep Sep Oct Total	Labest price : 20 44 20 43 20 47 20 35 20 36 EUDE Off, Labest price : 19 13 19 28 19 27 19 29 19 40 19 39	PE (3 Dey's change +0.03 +0.05 +0.13 +0.05 +0.05 -0.05 -0.25 -0.20 -0.18 -0.05	High 20 55 20.62 20.56 30.49 20.35 20.35 5/barres 19.27 18.39 19.40 19.39 19.40 19.39	20.25 20.26 20.28 20.32 20.32 20.34) 19.01 19.15 19.19 19.25 19.30	Vol. 32,061 10,825 4,375 1,701 515 540 55,775 55,775 55,775 571 315 671 315 20 58 20	Open Int 90,245 61,575
May Jon Aug Sep Oct Total Aug Sep Jul Aug Sep Oct Total Total Total Total Total Aug Sep Sep Oct Total	Latest price 20 44 20 43 20 43 20 43 20 35 20 36 Latest price 19 13 19 28 19 27 19 29 18 40 19 39 ATING C	NYM Day's -0.03 +0.03 +0.03 +0.05 +0.13 +0.05 -0.10 Day's -0.25 -0.20 -0.20 -0.20 -0.20 -0.20 -0.05	High 20 55 20.62 20.56 30.49 20.35 20.35 5/barres 19.27 18.39 19.40 19.39 19.40 19.39	20.25 20.26 20.28 20.32 20.32 20.34) 19.01 19.15 19.19 19.25 19.30	Vol. 32,061 10,825 4,375 1,701 515 540 55,775 55,775 55,775 571 315 671 315 20 58 20	Open Int 90,245 61,571 92,245 61,571 4,046 198,968 Con Int St. 4685 38,253 16,239 8,115 8,657 18,650 mm \$ galls)
May Jon Aug Sep Oct Total Aug Sep Jul Aug Sep Oct Total Total Total Total Total Aug Sep Sep Oct Total	Lutest price 20 44 20.43 20 47 20 35 20.36 Lutest price 19 13 28 19 27 19 28 19 27 19 28 19 27 19 28 19 27 19 28 19 40 19 39 ATING O Latest	NYM Day's -0.03 +0.03 +0.04 +0.05 +0.05 +0.05 +0.05 -0.05 -0.25 -0.20 -0.18 -0.25 -0.20 -0.18 -0.05	High 20 65 20.62 20.56 20.35 20.35 20.35 5/barrel 19.27 19.40 19.39 19.40 19.39 19.40 19.39	20.25 20.26 20.28 20.32 20.32 20.32 20.34 19.01 19.15 19.19 19.25 19.30 00 US ga	Val 32,061 10,825 4,375 1,701 515 540 55,775 Val 20,565 5,652 1,315 671 31 45 38; 50	Open Int 90,245 61,571 29,556 22,292 61,4046 996,998
May Jon July Aug Oct Total E CR May Jun Aug Oct Total E CR May Oct Total E ME ME	Liber Oil Libert price 20 44 20 43 20 43 20 43 20 43 20 35 20 35 20 36 Libert price 19 13 19 27 19 29 19 40 19 39 ATING C Libert price Libe	NYM Day's change +0.03 +0.03 +0.01 +0.05 +0.13 +0.05 -0.20 -0.20 -0.20 -0.18 -0.05 -0.05	High 20 55 20.52 20.52 20.53 20.35 20.35 5/0arrel 19.27 19.39 19.40 19.39 EX (42,0	Low 20.25 20.26 20.32 20.32 20.34 19.01 19.15 19.19 19.25 19.30 00 US gr	Vol. 32,061 10,825 4,375 515 540 555,776: 55,576: 671 311 45 as a factor of the control of the c	Open Int 90,245 61,571 61,571 29,556 22,232 13,916 14,046 195,988 Open Int 58,485 38,253 16,239 8,115 6,239 ms 5 gales) Open Int 5 gales) Open Int 5 gales) Open Int 5 gales)
May Jon July Sep Oct Total May Jun App Sep Oct Total May Jun App Sep Oct Total May Jun He May Jun H	Lutest price 20 44 20.43 20 47 20 35 20.35 EUDE Off. Lutest price 19 13 19.28 19.27 19.29 19.40 19.39 EATING O Latest price 54.30 54.30 54.30	NYM Day's -0.03 +0.01 +0.03 +0.01 +0.03 +0.03 +0.03 +0.03 -0.03 -0.25 -0.20 -0.20 -0.05 -0.05 -0.05 -0.07 -0.07	High 20 55 20.52 20.56 20.56 20.55 20.55 20.35 2	20.25 20.26 20.32 20.32 20.32 20.32 20.34 19.01 19.19 19.25 19.31 19.30 00 US \$2 54.25 54.25	Vol. 32,061 10,825 4,375 540 555,775 540 45 56,775 45 67 1 31 45 88 88 88 88 88 88 88 88 88 88 88 88 88	Open Int 90,245 61,571 29,556 22,295 61,571 13,916 14,046 998,968
May Just Aug Oct Total CR May Just Aug Oct Total CR May Just Aug Oct Total May Just Aug Just Aug Oct Total May Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Aug Just Aug Aug Aug Aug Aug Aug Aug Aug Aug Aug	Lifest price 20 44 20 43 20 43 20 43 20 35 20 35 20 36 Lifest price 19 13 19 28 19 27 19 29 18 40 19 39 ATING C Lifest price 54 30 54 75	NYMM Pay's -0.03 +0.03 +0.03 +0.05 +0.05 +0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.07 -0.12 -0.12 -0.12 -0.13	High 20 55 20 52 20 52 20 52 20 52 20 52 20 52 20 52 20 52 20 52 20 52 52 52 52 52 52 52 52 52 52 52 52 52	Low 20.25 20.26 20.33 20.32 20.34 19.07 19.25 19.31 19.30 00 US \$5 42.5 54.75	Viol. 32,061 10,825 11,701 515 515 55,775: 515 5,875 1,515 5,875 1,515 671 31 18,350 18,350 1,559 1,559	Open int 90,245 e1,571 e29,556 e22,232 e13,916 e14,046 e96,988 e15,289 e1,15 e8,657 e1,5280 en en en en en en en en en en en en en
May Jon CR May Jun CR May Jun Aug Sup Oct Total III HE May Jun Aug Jun Aug Aug Aug Aug Aug Aug Aug Aug Aug Aug	Linest price (1998) 20.44 20.43 20.43 20.43 20.43 20.43 20.35 20.36 HUDE Off. Linest price (1998) 19.27 19.29 19.40 ATING Off. 54.30 54.30 54.35 55.45	NYM Page 1 - 0.03 + 0.01 + 0.03 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 - 0.25 - 0.25 - 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05 + 0.05	High 20 65 20.56 20.56 20.56 20.56 20.35 20.35 50.35 50.37 19.40 19.39 19.40 19.39 EX (42.0 48.75 54.75 54.75 54.75 55.75	20.25 20.28 20.28 20.32 20.32 20.32 20.32 20.34 0 19.01 19.19 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30 19.30	Val 32,061 10,825 24,375 510,555 540 555,775 1,701 317 45 861; 60 45 1,556 1,566 1,5	Open Int 90,245 61,571 29,556 22,222 13,916 14,046 998,988 Open Int 56,485 38,223 16,239 6,115 8,657 0pen Int 34,960 16,832 14,741 81,742
May Just Aug Oct Total CR May Just Aug Oct Total CR May Just Aug Oct Total May Just Aug Just Aug Oct Total May Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Just Aug Aug Just Aug Aug Aug Aug Aug Aug Aug Aug Aug Aug	Linest price (1935) 2043 2043 2043 2043 2043 2045 2035 2035 2035 Linest price (1939) 1928 ATING Of Lanest price (1939) 45430 5430 5430 5455 5525	NYMM Pay's -0.03 +0.03 +0.03 +0.05 +0.05 +0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.07 -0.12 -0.12 -0.12 -0.13	High 20 55 20 52 20 52 20 52 20 52 20 52 20 52 20 52 20 52 20 52 20 52 52 52 52 52 52 52 52 52 52 52 52 52	Low 20.25 20.26 20.33 20.32 20.34 19.07 19.25 19.31 19.30 00 US \$5 42.5 54.75	Viol. 32,061 10,825 11,701 515 515 55,775: 515 5,875 1,515 5,875 1,515 671 31 18,350 18,350 1,559 1,559	Open int 90,245 e1,571 e29,556 e22,232 e13,916 e14,046 e96,988 e15,289 e1,15 e8,657 e1,5280 en en en en en en en en en en en en en
May Jun Jun Aug Sep Oct May Jun Aug Sep Oct May Jun Jul Aug Sep Oct Total III HE May Jun Jun Jun Jun Jun Sep Sep Sep Sep Sep Sep Sep Sep Sep Sep	Linest price (1935) Linest price (1935) 20 43 20 43 20 43 20 43 20 43 20 35 20 35 20 35 20 35 20 35 20 35 20 35 20 35 20 35 20 35 35 25 35 25 35 55 55 55 55 25	NYMM +0.03 +0.01 +0.03 +0.03 +0.03 +0.05 +0.13 +0.05 +0.13 +0.05 -0.25 -0.20 -0.20 +0.05 +	High 20:55 20:52 20:52 20:52 20:52 20:52 20:55 20:49 50:49 50:49 50:55 5	20.25 20.25 20.25 20.33 20.32 20.34 19.07 19.07 19.07 19.30	Val. 32,061 10,825 1,701 515 540 55,775 1,315 671 31 45 345 1,559 345 1,559 345 1,559 345 553	Open Int 90,245 61,571 29,556 22,292 61,571 61,046 61,057 61,046 61,057 61,046 61,057

169 50 -1.75 170.50 169.25 997 11,008 171.75 -1.25 172.25 171.50 405 4,445 173.75 -1.00 174.00 173.00 250 2,256 175.75 -0.75 175.75 175.75 78 1,529 MATURAL GAS NYMEX (10,000 mm811: S/mm811) 1,905 -0.021 1,950 1,900 7,859 30,773 1,955 -0.013 1,990 1,950 2,116 15,501 1,970 -0.010 1,995 1,980 1,352 12,485 1,980 -0.013 2,005 1,980 469 9,708 1,990 -0.010 2,010 1,980 856 8,868 2,030 -0.003 2,040 2,030 377 10,680 MMEX (42,000 US galles; crUS galles) +0 08 63.75 63.05 14.340 42,717 +0.13 63.30 62.60 2.138 21.243 62.20 +0.28 62.60 62.00 726 10.006 61.10 +0.38 61.40 61.00 236 5.317 58.90 +0.63 59.90 59.30 282 2.670 58.50 +0.98 - 231 1,337

W	HEAT L	FFE (E	per to	nne) -			■ COCOA LIFFE (2/tonne)						
		chang	ı e Higb	٠	Vol	Open jut		Latest price		High	Low	Yel	Open int
ing i			102.85				Hey	. 1017	-				28,879
■ 8p			104.75 98.30				Jini Sep	1030 1041	-2 -1		1022 1034		15,704 12,112
eT.	100.75	+1.50	101.00	99.75	274	2,243	Dec	1030	+2	1033	1024	1,815	24,909
			103.00				Na.	1946	+4	1046	1946		23,875
kr Stati	104./5	+1,30	104.35	104.33	20 641	204 7,473	Total	COA CS	CE 40		- ea-	-	132,474
	HEAT C	C.C) TE	00bu m	in; cent							_		~~~
lay	401.50	+4.00	407.00	397.50	5,181	26,883	May Jai	1466 1495	+13 +13				29,669 23,057
of .	399.00	+5.00	404.50	335.00	12,758	42,325	Sep	1517	+9	1519	1487	244	11,983
ep BC			407.00 415.00			6,713	Dec Mar	1531	+7				9,594
lec Lec			408.00				Hay .	1555 1560	+3 -10		_		19,017 7,215
	372.00		-	-	-	182	Total						101,742
		~ a ~	a			84,406	# CO	COA (IC	CO) (S	DR's/to	nne)	•	
	AUZE CB						Mar 31				ice		rer. day
ay 1			320.00 320.75			142,224	Daily				nž.	1	1137.17
- P			300.50				= cor		TF 8/	mmel			
BC	292.00	+0.50	296.00	289.50	16,247	88,836			_	_	4545		
er ey	296.50 298.50		301.50 296.50		679 26	9,053 382	May Jul	1614 1622	-21 -21	1980 1660			20,334 12,873
	230.30	-	200.30	220.00		376, 946	Sap	1630	-23	1667	1630		7,852
B/	RILEY L	FFE (S	per to	rine)	•		Har	1625	-18	1658 1631	1825		2,864
- 7	94.50	+1.50	94,50	94.50	5	133	Jia Mar	1600 1585	-23 -23	1031	1600	77	749 85
P.	95.50	+1.25	-	_	_	36	Total		-			3,359	44,357
		+1.25	97,50				E CO	押車 で	CSCE	(37,50	Olbs; c	Asting/	(sed
=	101.50			Ξ	Ξ	-	May	186.70					
y.	103.50	-	-	-		_	3ul	170.50					
الطاد	WADEA	NO (07	- ma		73	810	Sap Dec	158.50 144.50					0,36/ 3,566
	YABEA					_	Mar	134.25	-2.75	136.50		84	1,081
ey i	879.00 ·		885.75 888.00				May Total	130.00	-0.50	-	_	2 8 891	226 37.435
4	858.00	+23.50	864.50	832.50	950	8,757		TEE (IC	O) (US	Certis/	DOUNG		
P	767.00					5,527	Mar 31		<u> </u>				rev. day
M.			713.00 710.00			2015		al y		139.	.38		138.68
					57,123	185,449	15 day a	merage		135.	83		135.92
	YABEA					_	e wh	TE SUG	AR LI	∓E (\$/\	torme)		
ty I			24.63 24.99				May	309.0		309.0	_	1,541	14 541
- 4	24.95	+0.47	25.15	24.50		6,601	Acq	308.0	+25	308.0	305.8		5,855
P			25.05		397	3,866	Oct Dec	304.1 302.5	+21	304.1	302.3	11	3,471
i E			25.20 25.50		1,857	3,818	Mar	300.5	-	_	-	_	954 501
						87,302	May	301.1	-	-	-	-	154
SC	YABEA		T CBI	(100 to	x1s; \$/1	on)	Total	AR '11'	~~~	M120	~	72 	
7	292.0		293.0										<u> </u>
4 49	289.3 276.5		289.7 278.3		4,256 487	28,879 8,624	isay Jul		+0.11	11.01 10.73	10.78		
p	255.5	+6.5	259.0	249.5	397	6,199	Oct	10.50	-	10.58	10.48	806	28,533
t IC	228.5 219.5	+3.5 +2.3		228.0	1,361 1,409	4,852 9,768	Har Hay	10.56 10.55	+0.07	10.56	10.48		14,898 3,150
	2144		224.0		17,858		Jei		+0.06	10.55	10.55		1,445
PC	TATOES		Ē (Σγtor				Total						42,555
K	32.0	-20	35.0	31.0	39	427		TON N				_	
ry C	46.0 66.0	+1.0 +1.0	=	_	_	387	May Jul			71.85 73.48			
*	65.0	- I.J	-	_	Ξ	12	Oct '	74,95	-	75.00	74.80	381	1,959
H.	96.0	+1.0	-	-	-	-	Dec	75.38	+0.03	75.6 0	75.15	3,844	21,397
	116.5	+3.5	116.3	114.0	21 89	731 1,557	Mar May	75.15 77. 00	-0.25 -0.03	77.00	77.00	374 50	2,312 545
	EIGHT (BIFFED) LIFFE	(\$10/ i			Total				1	17,751	70,246
F	1580	-15	1570	1558	34	1,068		MGE JL		-		_	
7	1550	-10	1550	1550	4	672	May	76.45	+0.10	76.75	75.50	4,797	13,709
į	1280 1393	-25 -22	1305	1285	6	775 321	Jel Sep	78.60 81.30		78.80 81,30			
	1430	-20 -20	Ξ	Ξ	_	321 47	Her	83,80	-	84.50	63.50		1,782
r	1430	-	-	-	-	-	Jan.		+0.70	88.25	85.40	59	710
	Class	Den-			44	2,883	Mar Total	87.55	-	-	-	44 8.513	376 27 ,88 7
1	1506											تناحون	- 100r

Minor metals European free market, from Metal Bulletin Phose from the end of last week because of bank holidays. S per Ib in warehouse unless otherwise stated (previous in brack ot bank holidøye. \$ per lb in værehouse, uriless ofherwise stande (previous in brack-tits, where changed). Antimony: 93.65%, \$ per tonne, 2,125-2,235 (2,100-2,200). Blamath: min. 98.95%, tonne lots 2,90-3,15. Cadantum: min. 99.95%, certs a pound, 55.00-85.00 (60.00-70.00). Colusit: MB free market, min. 99.3%, 20,25-21.50 (19.70-20.80); min. 99.3%, 19.25-19.85 (19.00-19.50). Mercuny: min. 99.9%, \$ per 76 b flasic, 161-171. Molyhdentum: chummed molyhdic oxide, 4,45-4,90, \$ elentum: min. 99.5%, 2,35-3,10 (2,35-3,15). Tungatten over standard min. 65%, \$ per rome unit (10kg) WO, cit, 45-55. Vensedium: min. 98%, cit, 3,90-4,05 (2,90-4,05). Urasilum: Nuexico urrestricted exchange.

VOLUME DATA Open interest and Vo confracts traded on COMEX, NYMEX, CBT. NYCE, CME, CSCE and IPE Crude Oil are one day in arrears. Volume & Open interest totals are for all traded months. INDICES ■ Reuters (Base: 18/9/31 = 100) **CRB Putures (Base: 1967 = 100)**

Mer 31 Mer 27 month ago 245.17 .245.66 III GSCI Spot (Base: 1970 = 100)

MEAT AND LIVESTOCK III LIVE CATTLE CME (40,000lbs; cents/tot

68.325 -0.100 68.725 68.100 5,980 26,100 64.825 -0.250 65.050 64.700 7,058 30,611 63.725 -0.125 63.850 63.600 2,076 22,705 67.525 +0.050 67.700 67.425 1,576 15,034 89.500 -0.025 89.875 89.450 685 7,457 70.375 -0.175 70.600 70.875 1,042 80.975 -0.900 81.750 80.850 5.171 80.900 -0.600 81.500 80.700 1,654 78.300 -0.400 78.750 78.050 1,142 71.700 -0.150 71.825 71.350 479 PORK BELLIES CME (40,000/be; cents/lbs) 78,400 +1,650 78,925 77,500 697 LONDON TRADED OPTIONS

COPPER (Grade A) LIME 149 127

LONDON SPOT MARKETS E CRUDE OIL FOB (per barret) \$17.47-7.57w -0.675 \$18.22-8.23 -0.335 \$19.10-9.11 -0.305 OIL PRODUCTS AWE produpt defer \$211-213 \$167-169 \$80-82 \$189-190 Heavy Fuel Oil Naphtha Jet fuel

10.1-10.3 on (0171) 359 8782 E OTHER Gold (per troy oz) \$ Silver (per troy oz) \$ Platinum (per troy oz Paliadium (per troy o 504.00c Copper Lead (US prod.) 14.22

273.50 Cattle (live weight) Sheep (live weight)† Pigs (live weight)† 97.51p 147.76p 84.42p Lon. day suger (raw) Lon. day suger (wha) Barley (Eng. feed) Maize (US No3 Yellow) \$267.10 Wheat (US Dark North Rubber (May)♥ Rubber (Aun)♥ Rubber (KL RSS No1) 78.00a 78.00p 299.0x Coconut Off (Phill)S Paim Oil (Maley.)S Copra (Phill)S Soyabeans (US) Cotton Outlook'A' Index +20.0 \$490 fv 4750

CROSSWORD

No.9,338 Set by DARCY

ACROSS
1 Set of cards in good suit in the box (7-4)
7 Doctor beginning to berate unruly crowd (3)
9 A bit of a telling-off, in a

10 Reserve centre blunders 11 Act's old hat - fans may en through it (9)

12 Bale out, caught in European plane (5) 18 Can be turn out trendy, put in 3 down? (7) 15, 18 Xmas pudding, appear-

20 A lot of pot (7) 23 Trees badly clipped (5) 24 Air a preference for a double (9)

financial planning (9)

episode (5) ian director (7)
28 First wife seen the day 20 Sold, having taken a beat-

he or she? (5.6)

1 in short, ultim exceptional award for jour 2, 22 Dealer starts this, to reduce link between banks (8,6)

3 Perhaps Jeremy gets smoother (5) I'd groan, unravelling type of knoot (7) 5 Fool supports an urban Bel-gian community (7) 6 Previous scrutineer voiced

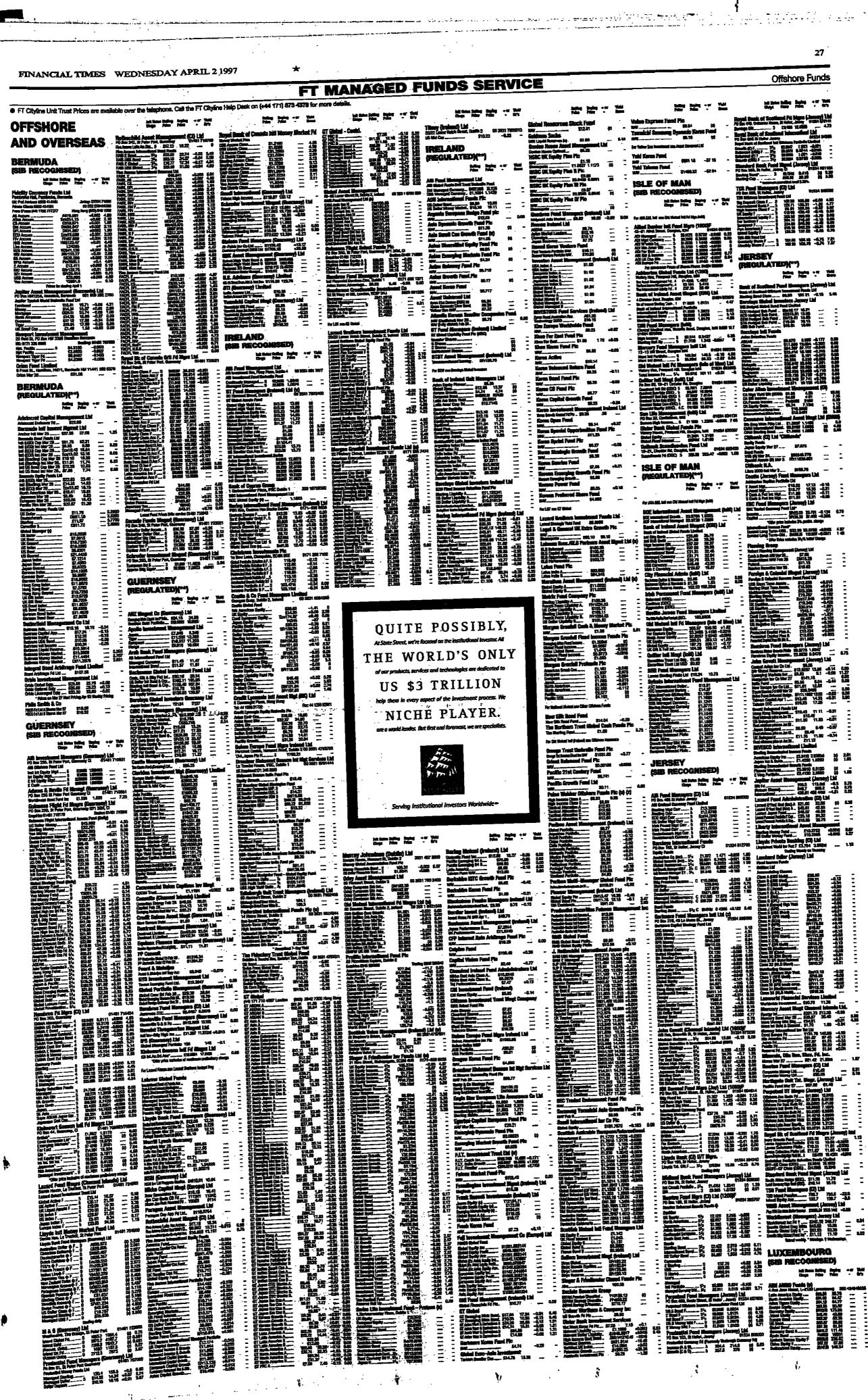
chancellor's responsibility 18 Xmas pudding, appearing very tasty, not very nice (4.4)
A lot of pot (7)

7, 16 Firm put under £500 in dubious dealings (6.5)
8 Puff, about to enter tub (6)

14 Fun's a necessity to enter-tain English chaps (9) 26 Move can start to generate 17 He was arrested as a child 27 Warning of some terrible 19 Got into line with one Ital-

29 28's first-born, maybe - is it 21 Some horses may be steady (6) 22 See 2 down 25 Take steps, lacking leader

Solution to Saturday's prize puzzle on Saturday April 12. Solution to yesterday's prize puzzle on Monday April 14.



future on data revision

LOSSWORD

28	* ET MANAGE	ED FUNDS SERVICE	FINANCIAL TIMES 2.		e Server
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LONDON STOCK EXCHANGE

FTSE 100 closes well above session low

MARKETS REPORT

By Steve Thompson, UK Stock Market Editor

There were no prizes yesterday for guessing which way London and the rest of Europe's stock markets would go in the wake of Wall Street's 4.3 per cent reversal on Thursday and Monday. On those two days, the Dow Jones Industrial Average lost 140 and

157 points respectively. London managed its retreat in classic fashion with marketmakers adopting their usual defensive stances, hitting quotations at the start of the day to head off any big sellers and then

nudging prices higher to encour-age a rally.

Interest rates might be the first UK Purchasing Managers' Index European investment banks said in a series of shifts to hit US for March came in below consen-that while London had shaken off age a rally.

In the event, they were success ful and all the main indices closed well above the day's low-

The FTSE 100 index finished the day 64.8 lower at 4,248.1, fighting off a determined attack on the 4.200 level during the first frantic minutes of the session. At its worst, the FTSE was down 112.4 at 4,200.5. The FTSE 250 closed 78.8 weaker at 4,497.4 while the SmallCap settled 38.4

Wall Street's sell-off took place as international investors fretted about the possibility that last week's 25 basis points rise in US

corporate profits.

Senior marketmakers said the big investing institutions had not begun a large-scale selling programme and were put off by the big mark-down.

We were concerned by the pressure exerted on the future during the early part of the day, but once that lifted, sentiment began to improve," said one lead-ing trader. The future settled at a small discount to the cash market, encouraging a flurry of bear closing just before London closed.

The day's economic news led to activity in both directions. The trading at one of the biggest changed hands.

sus and did no damage to a gilts market suffering from the weakness of the US bond market during the Easter holiday.

US news was mixed. The NAPM figure was stronger than expected, although the pricespaid element was well received, as was US construction spending and the leading indicators.

that London and the rest of Europe had ridden out the storm that started in New York and European markets were likely to stabilise in the short term.

The overall impression was

However, the head of global

cut had been made partly to

reflect the fact that expenses

are higher than at other

Abbey National fell 6 to

739p despite a positive note

from Merrill Lynch. Mr

Simon Price, banking ana-

lyst at Merrill, said that the

bank had not been given

enough credit for its diversi-

fication, especially into the

Barclays and Lloyds TSB

National Westminster

both fell back losing 8 and

1% to £10.13p and 498p

Bank bucked the trend in

the sector gaining 7 to

693%p, the fourth-best per-

formance of any FTSE stock.

Analysts said the share's rel-

atively high dividend yield

had provided some support.

ers also moved gently lower.

65,520 1148.2

Chairman of the Board of Directors

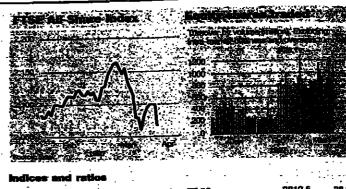
Composite and life insur-

life insurance business.

clearing banks.

that while London had shaken off the worst of the US-inspired weakness, there were plenty more hurdles to face in the short term. These included the general election and the expected rise in UK interest rates which many observers see as inevitable whoever wins the election.

There was very little joy for the market's big trading houses, who are believed to have absorbed books during the most recent bout of turbulence in the market. Turnover was disappointing given the gyrations in share prices. At 6pm, 650.8m shares had



Control State of the state of t	
Indices and ratios	
FTSE 100 4248.1 -84.6 FTSE 250 4497.4 -78.6 FTSE 350 2095.2 -32.9 FTSE All-Share 2067.37 -32.93 FTSE All-Share yield 3.69 3.64	FTSE Non-Fins p/e 17.88 18.1 FTSE 100 Fut Jun 4265.0 -48 10 yr Gilt yield 7.75 7.6
Best performing sectors	2 Investment Trusts2 3 Diversified ind2

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Low

4201.0

Buyers in for utilities

By Peter John, Gary Mead and Richard Lapper

litilities, traditionally the most politically sensitive area of the market, were surprisingly robust yesterday.

This week sees the start of full-blooded election campaigning, but water, electricity, and gas stocks have seen their prices fall so far in anticipation of a Labour victory, and subsequent windfall tax on profits, that they are providing significantly stronger vields than they were at the last general elec-

Williams de Broe has argued that "even under Labour, double-digit real annual dividend increases should be expected over the

medium term".
And Mr Philip Hollobone, de Broe's utilities' specialist, said yesterday that water stocks were on a yield relative of 164 against the broad market compared with 139 last time, while electricity was on 166 compared with 113 last time and gas 215 against 141

United Utilities, which combines both water and gas, was up 3 at best before closing marginally stronger

Among the second-liners Scottish Hydro lifted 2 to 363p and Yorkshire Electric-

ity a penny to 923p. Two big media stocks, EMI and Pearson, stood out tively well as IBCA, the cred- ABN Amro, said the forecast selected news reports mingled with some difficult technical situations.

Music publisher EMI topped the list of Footsie performers with a gain of 29 to £11.44p. Some traders linked the gain to a report that supermarket sales of videos were bounding forward. But the report by the Corporate Intelligence on Retailing, a research consultancy, appeared to be a slim reason for moving the price of an internationally traded company upwards on a day when most European

sharp falls on Wall Street. Similarly, the launch of Channel 5, in which Pearson is an investor, was a thin argument for pushing the media conglomerate's stock up 141/2 to 7431/2p.

bourses were reacting to the

But dealers also noted some aggressive bidding by one leading UK investment bank. This may have been part of a market-wide arbitrage as the investment bank was seen on the bid in an extensive range of Footsie stocks at least three times during the day.

It was suggested that there may already have been short positions in Pearson and EMI and the aggressive bidding prompted rival dealers to mark prices higher.

Leading internationally traded stocks suffered badly in the wake of yesterday's Europe-wide market slides. Hanson fell 14 to 272p, BT 171/2 to 428p. Reuters 221/2 to 5961/ap and SmithKline Beecham 321/4 to 8701/40.

However, BP held up rela-

against the general rout as it-rating agency, assigned an Al plus short-term rating and AA long-term rating to the company. The shares ended the day only a penny

lower at 705%p. In the financial sector, HSBC was roughly handled, reflecting its exposure to the dollar and dollar-linked markets as well as a sharp overnight fall in the Hong Kong stock market.

The Hang Seng index nosted a loss of 3.67 per cent. mainly on the back of US rate fears. HSBC UK registered stock eased 44% to £14.49%p, a decline of just over 3 per cent.

Royal Bank of Scotland was also a poor performer. dropping 13 to 524p. ABN Amro Hoare Govett said it had downgraded its profit forecast for the year to September by £25m to £750m. Mr Peter Toeman, analyst at General Accident dropped 13

	Apr 01	Mar 27	Mer 26	Mar 25	Mar 24	Yr ago	High	_FOA.			
FT 30	2812.5	2851,4	2845.1	2823.1	2788.9	2796.5	2931.4	2762.5			
Ord. div. yield	3.95	3.89	3.90	3.93	4.05	3.86	. 4.18	3.84			
P/E radio net	16,82	17.06	17.01	16.90	17.15	16,66	. 18.09	τ6.82			
P/E ratio nil	16.65	16.88	16.84	. 16.73	16.94	16.34	17,87	16.65			
FT 30 sloce compli	P/E ratio nii 18.65 16.86 16.84 16.73 16.94 16.34 17.87 16.85 FT 30 slece complisitor; high 2931.4 10/2457; low 49.4 26/06/40, Bass Date: 1/7/36.										

	Ореп	9.00	10.00	11.00	12.00	13,00	14.00	15.00	16.00	High	Low
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				Apr (n M	¥ 27	Mar 26	Mar	25 N	ter 24	Yr ago
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Apr 01 Mar 27 Mar 26 Mar 25 Mar 24 Yr ago 1094.9 1109.3 1110.6 1110.0 1110.2 990.7

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Rises and falls* Total Rises Total Fells 1 Same Apr 1 "Data based o	112 ,808 504	Total Highs Total Lows	23 206	Puts .	26,413 11,065 15,348

to 805p, Royal Sun Alliance 9 to 438p, and Commercial Union 6 to 665%p. Guardian Royal Exchange ended 2% lower at 278%p. Prudential closed down 5% at 561%p and Legal & General lost 51/2

at 384½p. Retail and food sectors were relatively unaffected by the lowered overall market yesterday, with analysts pointing out that the sectors have been underperforming in recent weeks. One specialist attributed the relative buoyancy of the sectors to the fact that "they have some classic defensive

stocks" Kingfisher proved an exception, having started the day at 700%p and falling to 6751/sp, although 14p of that was accounted for by the stock going ex-dividend.

Among the chain stores, Carpetright started at 533p, but dropped to 512%p, and DFS was down 30 570%n. MFI improved from an opening of 144p to 147%p, which analysts speculated might indicate strengthening confidence on the back of the Easter weekend, a peak time for DIY.

Next started at 623%p, but closed down 25%p at 598%p. WH Smith fell 61/20 to 4430. Among the food producing companies, the mood was generally tranquil too, with most prices static. Against that general trend, Unilever was down 43% to £15.71%p. Tate & Lyle slipped 4 to 430p, Dalgety closed down 13 at 340%p,and Hillsdown fell 1% to 191%p. Against the generally cautious mood. United Biscuits gained 21/2 to

.23434p. P&O, the cruise liner and cross-channel ferry group, drifted 7% to 611p with Charterhouse Tilney said to have taken some of the steam out of the share price with a sell note.

to 230%p with an announce ment that the aerospace group has received an order with a potential value of \$240m for RB211-535 engines to power up to 16 additional Continental Airlines Boeing

757 airreaft. Amstrad jumped 21% to 221%p on news that the electronic goods maker has conditionally agreed to sell Dancall Telecom to Bosch Telecom for £92m and expectations that it will return cash to shareholders.

Recent denials that a take-

over is in the offing took some of the pzazz of Pizza-Express. The shares subsided 45% to 684p. Reunion Mining jumped 121/2 to 138p after an upbeat

FUTURES AND OPTIONS FTSE 100 INDEX FUTURES (LIFFE) \$25 per full index point High Open Sett orice Change -48.0 -48.0 4210.0 4265.0 4290.0 # FTSE 250 INDEX FUTURES (LIFFE) \$10 per full index point 4505.0 4505.0 -75.0 4505.0 4505.0

5 Electronic & Elect

III FTSE 100 INDEX OPTION (LIFFE) (*4231) 210 per full index point Calls 2877 Puls 7.354 B FURO STYLE FTSE 100 INDEX OPTION (LIFFE) \$10 per full index point

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ica (14)	1943.07	-8.6	11.56	25.52	4.62	30.63	3197.52	1918.45
atradasia (6)	1952.18	-12.0	5.13	11.34	2.76	21.18	2844.14	1930.22
rita America (12)	1513.71	-10.3	28.59	63.14	0.88	57.92	2134.81	1513.71

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TSE 100	4248.1	-1.5	4312.9	4301.5	4270.7	3728.5	3.80	2.11	15.63	51.20	1798.26
TSE 250	4497.4	-1.7	4576.2	4568.6	4552.7	4348.7	3.56	1.52	23.06	34.64	1857.44
TSE 250 ex IT	4539.3	-1.7	4616.7	4807.8	4591.9	4376.6	3.65	1.55	22.11	35.39	1879.36
TSE 350	2095.2	-1.5	2128.1	2122.9	2109.4	1877.2	3.75	1.99	16.76	23.36	1810.42
TSE 350 Higher Yield	2018.8	-1.6	2052.5	2047.9	2035.9	1824.2	4.89	1.87	13.64	27.29	1475.07
TSE 350 Lower Yield	2178.4	-1.5	2210.5	2204.6	2189.4	1937.7	2.60	2.21	21.78	19.14	1548.48
TSE SmallCap	2280.31	-1.4	2313.72	2312.40	2311.69	2096.77	3.04	1.68	24.43	16.50	1918.78
TSE SmallCap ex IT	2293.79	-1.3	2323.30	2321.12	2320.68	2081.50	3.21	1.76	22.16	17.02	1944.64
TSE All-Share	2067.37	-1.5	2099.70	2094,89	2082.52	1855.90	3.69	1.97	17.18	22.42	1812.92
FTSE Actuaries indi	estry S			-			-	-			
	, -	Day's		-		Year	Div.	Net.	P/E	Xd adi.	Total
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10 MINERAL EXTRACTION(20)	4073.52	-1.2	4123.74	4109.99	4069.30	3373,49	3.67	2.14	15.94	30.55	1798.98
12 Edractive industries(5)	4035.14	-1.1	4078.63	4086.48	4008.24	4253.73	3.88	2.38			1230.76
15 Oil, Integrated(3)	4187.88	-1.2	4239.12	4215.65	4178.66	3405.88	3.89	2.10	15.32	20.17	1895.34
18 Oil Exploration & Prod(12)	3567.94	-1.5	3621.39	<u> 3851.30</u>	3622_90	2423.50	1.60	2.20	35.42	34.64	2183.89
20 GEN INDUSTRIALS(270)	1976,78	-1.6	2008.17	2005.58	1996,70	2097.80	4.02	1.87	16.61	18.99	1116.45
21 Building & Construction(35)	1326,67	-1.6	1349.07	1343.88	1333.24	1136.62	3.23	1.88			1143 92

		Day's		•		Year	Div.	Net	9/E	Yel oell	. Total
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10 MINERAL EXTRACTION(20)	4073.52	2 -1.2	4123.74	4109.99	4069.	30 3373,4	3.67	2.14	15.94	30.55	1798.98
12 Extractive industries(5)	4035.14	-1.1	4078.63	4086.48	4008.	24 4253.73	3.88	2.38			1230.76
5 Oil, Integrated(3)	4187.86					BB 3405.8I			15.32	20.17	1895.34
18 Oil Exploration & Prod(12)	3567.94	-1.6	3621.39	3851.30	3822	90 242 <u>3.5</u> (1.60	2.20	35.42	34.64	2183.80
GEN INDUSTRIALS(270)	1976.78					70 2097.8					1116.45
Building & Construction(35)	1326,87					24 1136.6					1143,92
Building Matis & Merchs(31)	1826.32					55 1854.00					949.14
Chemicats(26)	2247.51 1493.37					31 2534.7					1105.98
Diversified Industrials(16) Electronic & Elect Equip(38)	2182.04					98 1 7 80 <i>.4</i> 0 14 2385.5					879.48
Engineering(70)	2572.78					14 2431.19					1167.76 1602.52
Engineering, Vehicles(13)	2808.68					22 2959.8					1495.53
Paper, Poko & Printing(27)	2487.39					79 2758.7					1076.19
Textites & Apparei(14)	1071.04					6 1487.1					682.30
CONSUMER GOODSIB4)	4109.78	-18	4185 83	4180.37	4140	56 3464 93	3.68	1.03			1579.62
Alcoholic Beverages(7)	2894.59					47 2782.8		1.89			1095.74
Food Producers(25)	2882.12					6 2482.71					1345.75
Household Goods(17)	2873.24	وَم_ ا	2999,51	2905.67	2923.	87 2569.50	3.59	2.31			1178.32
Hesith Care(15)	2162.40		2200.91	2166.60	2143	33 1936.19	2.75	1,79	25.42	11.89	1343.26
Pharmaceuticuls(18)	6392.16					84 4822.52		1.99			2240,57
Tobacco(2)	4259,47		4343.17	4453.B	4413.	90 41B0.3	6.36	1,89	10.40	147.58	1133.82
SERVICES(273)	2007.07					S 2411.95		1.98			1391.82
Distributors(30)	2633.26					77 2758.62		1.94	18.52	11.32	994.07
Laisure & Hotels(31)	3417.42					3077.4					1889.67
Media(44) Retailers, Food(15)	4209.79 1982.14					98 4078.35 75 1872.54					1555.07
Retailers, General 53	2041.80					i4 1971.60					1294.79
Breweries, Pubs & Rest.(22)	3300.24					30 3013.45		210			1200,38 1626,10
Support Services(56)	2870.17					8 2178.26					1856.68
Transport(22)	2757.14	-1.6	2802.68	2813.78	2794.	9 2406.40		1.28	28.13	13.12	1184.00
UTILITIES(33)	2639.35	-1.7	2684.49	2667.30	2656.2	4 2550.90	5.08	1.55			1199.50
Electricity(10).	2797.29					8 2783.63					1545.08
Gas Distribution(2)	1512.33					8 1572.00		#			827.51
Telecommunications(9)	2239.03					12 2186.91		1.70	19,75		1057.19
Water(12)	2418.09		<u> 2434,55</u>	2397.75	2398.	<u>14 2175.07</u>	<u>8.16</u>	2.33	8.69	0.00	1398.54
NON-FINANCIALS(680)	2133.30	-1.5	2166,88	2160,76	2146.0	7 1978.97	3.71	1,88	17.88	19,15	1677.82
FINANCIALS(106)	3709.74	-1,4	3761.74	3759.07	3741.	8 2833.39	3.85	2.39			1687.18
Banks, Retali(8)	5364.97	-1.4	5440.14	5449.41	5415.3	5 3932.53	3.73	2.65	12.66	122.52	1834,45
Insurance(18)	1634.71					8 1377.79		2.31	10.25	37.26	1293,98
Life Assurance(7)	4448.28					18 3564.67		2.00			1920.88
Other Financial(29)	3071.99					3 2547.67		2.36			1809.85
Property(44)	1852,92	-0.6	1863.88	1865.80	1859.	4 1455.86	3.46	1.31	27.52	7.34	1175.76
INVESTMENT TRUSTS(127)	3214,32	-2.2	3288.03	3289.98	3280.1	5 3187.70	2.27	1,12	49.38	18.88	1145.09
FTSE All-Share(913)	2067.37	-1.5	2099.70	2094.89	2082.	2 1855.90	3.89	1,97	17.18	22,42	1812.92
SE Fledgling SE Fledgling ex IT	1285.74 1307.04		1906.89	1304.21	1302.9	16 1175.12 16 1177.54	3.04	0.78	52.7t	8.16	1376.50

Hourly movements

	Open	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.10	High/day	/ Low/da
TSE 100	4205.1	4214,8	4217,7	4218,6	4222.9	4229.7	4241.7	4235.5	4230.B	4248 1	
TSE 250	4494.1	4490.2	4494.1	4492.0	4499.8	4495.B	4496.8	4497.3	4494.9	4497.6	4487.5
TSE 350	2078.1	2081.5	2083.0	2083.1	2085.0	2087.8	2092.6	2080.2	2086.2	2085.2	2075.7
ime of FTSE 100	Day's high: 4	30 PM De	y's low: B;	90 AML FTS	¥E 100 199	18/97 High:	4444.3 (11	/03/97) Lg	w: 3632.3 (241279 .	

FTSE 350 Industry baskets

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For further information on the FTSE Actuaries Share Indicas pieces contact FTSE International on 0171 448 1810.

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Exchange and The Financial Times and are used by FTSE International under licence. † Sector P/E radios greater than 80 and not solvers greater than 30 are not shown. ‡ Values are negative, Detelloss; CGC International (FTSE Redgling)

Name Changes RMS Communications formerly Dunton Group (FTSE Fledgling).

TRADING VOLUME 4481-1 555-1 568-1 5

A. Bertola, Turin, at 3:00 PM on April 30, 1997 on the first call, or at the same time and place on May 9, 1997 on the second call, if required, to deliberate and vote on the following **AGENDA** 1) Motion to use the reserve for inflation adjustments under Law No. 413/1991 to pay a portion of the 1996 corporate net 2) Merger by absorption of SIP - Società Italiana per l'Esercizio delle Telecomunicazioni p.a., also called Telecom Italia S.p.A., into STET - Società Finanziaria Telefonica - per Azioni; amendments to the Articles of Association regarding, in particular, name, registered office, share capital, corporate organs, ceiting on stock ownership, pooling of votes and voting by mail, in accordance with the Plan of Merger published in the Official Gazette of the Italian Republic, Issue No. 73, Part II of March 28, 1997; pertinent and related resolutions; delegation of powers. Only stockholders who have deposited their ordinary shares at least five days prior to the date of the Meeting at the corporate offices at 34 Via A. Bertola, Turin, or 41 Corso d'Italia, Rome, or at Monte Titoli S.p.A. for the securities which it manages, or at any of the usual authorized banks may attend the Meeting. Outside Italy, shares may be deposited at the following branches of authorized banks: Banca Commerciale Italiana S.p.A. - 42/46, Gresham Street - EC2V 7LA Credito Italiano S.p.A. - 17, Moorgate - EC2R 6AR Banca di Roma S.p.A. - 87, Gresham Street - EC2V 7NQ Banca Commerciale Italiana S.p.A. - One William Street - N.Y. 10004 Credito Italiano S.p.A. - 375, Park Avenue - N.Y. 10152 Morgan Guaranty Trust Company of New York - 60, Wall Street - N.Y. 10260 Paris: Banca Nazionale del Lavoro S.p.A. - 26, Avenue des Champs Elysées - 75008 Frankfurt em Main: Istituto Bancario San Paolo di Torino S.p.A. - Eschersheimer Landstrasse, 55 - D 60322 Lavoro Bank A.G. - Talacker, 21 - 8001 Prof. Guido Rossi

STET - Società Finenzierla Telefonica - per Azion red Office in Turin - Comorate Heedo Capital Stock L. 5.281,212,121,000 fully paid-in ered under No. 286/33 in the Ordinary Section of the Company Register of Turin Tax I.D. No. 00471850016

NOTICE OF EXTRAORDINARY MEETING The stockholders are invited to an Extraordinary Meeting at the Convention Hall located in the Registered Office at 34 Via

Holders of ADRs representing STET ordinary shares, which are listed on the New York Stock Exchange, should contact Morgan Guaranty Trust Company of New York, Depositary of the abovementioned ADRs, at 60 Wall Street, New York,

Notice is hereby given that the Company has complied with the statutory disclosure requirements for mergers by depositing the documents required under Article 2501 sexies of the Civil Code at registered office at 34 Via Bertola, Turin, and at the secondary office and headquarters at 41 Corso d'Italia, Rome, where they are available to the shareholders.

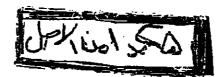
The Notice of the Extraordinary Meeting will be published in the Official Gazette of the Italian Republic.

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Appear in the Financial Times on Tuesdays, Fridays and Saturdays.

For further information or to advertise in this section please contact

Melanie Miles on +44 0171 873 3349 or Karl Loynton on +44 0171 873 4874



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7,434 25,559 103 1,242 a 1500 GMT. ● E TOKYO - MOST ACTIVE STOCKS: Tuesday, April 1, 1997

Stocks Traded 8.4m 5.8m 5.7m 5.6m 5.4m Change on day +8 -20 -10 +6 -20

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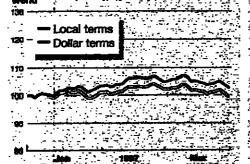
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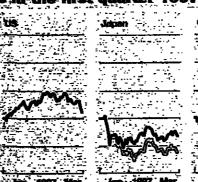
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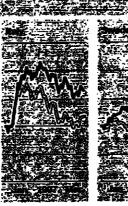
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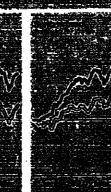


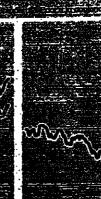
















Blue chips stabilise after losses

Blue chips called a halt to their losses on the heels of two consecutive days of weakness, but technology shares remained weak. writes Lisa Bransten in

At noon, the Dow Jones Industrial Average had edged up 4.91 at 6,588.39 and the Standard & Poor's 500 was 1.43 stronger at 758.55. NYSE volume was 225m. shares. Trading remained nervous as investers awaited data on March employment for signs of inflationary pressures in the economy. Wall Street analysts remained divided about whether the Federal Reserve would raise interest rates again in the wake of last week's ¼ point increase in the federal funds

target rate. Technology shares edged lower as investors worried about earnings from the high-tech companies. The Nasdaq composite dropped 2.00 at 1,219.70 and the Pacific Stock Exchange technology index, containing Nasdaq and NYSE-quoted shares, shed 0.6 per cent.

Concern was sparked by a warning from Informix, a leading maker of database software, that it expected to report a loss in its first quarter due, in part, to "weakness in all geographic particularly Europe". Shares in the com-

cent, at \$101/2. Oracle, the leading maker of database software and the fourth-largest company on Nasdag, lost \$4 at \$38, while the Nasdaq's three biggest companies posted small ains. Intel rose \$¼ at \$139%, and Cisco Systems climbed

\$5 at \$48.7. Some of the strongest performers on the Dow were financial shares which had been beaten down during the market's recent weakness. JP Morgan added \$1% at \$99%, Travelers Group climbed \$1% to \$49% and Travelers Group American Express advanced

TORONTO picked up in mid-morning trade before its computer trading system collapsed as a huge volume of deals in Bre-X Minerals built up shortly after the exchange reopened trading in the stock. Bre-X, the troubled exploration company whose shares tumbled C\$13 on Thursday, recouped C\$1.35 to C\$3.85 in volume of about 7.7m shares before the

The TSE-300 composite index added 31.18 to 5.881.40 saw cautious trade during the morning session as investors kept a wary eye on

MEXICO CITY edged lower, taking the IPC index down 22.28 at 3,725.70,

	LARKE	ts in	PERSE	ECTIV	E	_
	% 0	bange in lo	sel currency	t	% change starting †	% change in US S 1
	1 Week	4 Weeks	1 Year	Start of 1997	Start of 1967	Start of 1997
Austria	+0.13	+0.19	+15.35	+6.93	+2.86	-1.7
Belgium	+2.76	+0.44	+32.20	+13.84	+9.44	+4.5%
Denmark	+0.57	+0.69	+39.69	+12.89	+9.18	+4.2
Finland	-0.13	1.37	+54.23	+13.62	+10.17	+5.2
France	+2.65	+1.68	+31.39	+14.43	+10.34	+5.37
Germany	+3.70	+4.85	+34.62	+18.32	+13.91	+8.7
reland	+1.84	-1.88	+25.57	+7.99	+5.43	+0.69
Italy	+0.32	+0.35	+27,91	+12.80	+7.29	+2.47
Netherlands	+2.11	+1.52	+40.37	+13.98	+9.53	+4.6
Norway	+1,39	+0.B1	+36.07	+9.65		+5.6
Spain	+3.02	+4.22	+46.36	+8.60	+4.11	-0.5
Sweden	+3.80	+4.46	+45.79	+16.76	+10.31	+5.3
Switzerland	+3.47	+3.90	+26.90	+18.01	+14.47	+9.3
JK	+1.17	-0.21	+15.71	+4.15	+4.15	-0.5
EUROPE	+2.16	+1.67	+27.15	+11.01	+8,32	+3.4
Australia	+1.61	-0.15	+9.99	+0.69	+4.11	-0.57
long Kong	+0.05	-6.80	+5.16	-9.93	-5.87	-10.10
ndonesia	+1.36	-7.40	n.a.	+3.57	+6.70	+1.91
lapan	-1.18	-0.49	-13.81	-5.91	-7.69	-11.84
Weleysia	+0.03	-5,44	+10.08	+0.92	+7.54	+2.71
New Zeeland	+0.29	-1.85	+0.92	-6.00	-3.24	-7.58
Philippines	+0.41	-5.20	n,a,	-3.78	+0.39	-4.12
Singapore	+1.54	-6.92	-8.86	-4.02	-2.88	-7 <u>-25</u>
Thailand	+1.63	-1.77	-53.21	-14.89	-12.06	-16.02
Canada	-2.35	-3.72	+21.42	-0.11	+3.84	-0.82
JSA	-1.27	-2.17	+18.70	+4.12	+9.02	+4.12
Brezi	-0.48	+2.55	+64.49	+27.28	+30.79	+24.92
Mexico	+0.87	-0.55	+19.71	+12.91	+17.48	+12.20
South Africa	-0.28	-1.44	+4.04	+6.99	+18.56	+13.24
WORLD INDEX	-0.21	-1.01	+12.90	+3.59	+5.44	+0.70

Dow, dollar and bonds impact on bourses was L56 weaker at L7.287.

Two bad days for the Dow and further weakness in the dollar and domestic bond impact. FRANKFURT's Dax index closed 126.37 lower at an Ibis-indicated 3,281.46.

Last Thursday morning, the Dax registered an intraday peak of 8,466.47. The question then, said Mr Jens Wiecking of Prof Dr Dolff & Partners in Düsseldorf, was whether the market would see new highs.

In fact, it was a double top, noted Mr Wiecking, who feared that the liquidity which had boosted German equities would now disappear, with US investors ming their mutual fund holdings and hedge funds choosing to repay yen debt rather than continue to shovel funds into equities. "International investors

many, they have made good profits and they are likely to use the German market to get into cash," said Mr

THE DAY'S CHANGES

Stockholm

He added that excitement associated with the shareholder value theme had been dissipated by policy decisions at Hoechst, which ruled out a pharmaceuticals hive-off, and at Krupp, which pulled out of its reverse bid for Thyssen.

PARIS saw progress reports from CLF-Dexia and Saint-Gobain, and punished both of them.

are fully invested in Ger-

banking combine, reported a 13 per cent rise in 1996 net income and forecast a further gain in 1997 profits. It also saw a broker sell recommendation and fell FFr46, or 7.6 per cent. to FFr561.

Saint-Gobain admitted to product pricing problems, but it forecast a gain of at least 20 per cent in 1997 net

This left the shares down FFr42, or 5 per cent, at FFr810, as the CAC 40 index

shed 74.86 at 2,581.82. ZURICH's blue-chip exporters added the dollar to the Dow and the SMI index finished 157.5 lower at 4,501.7. Nestlé dropped SFr64 to SFr1,621 and Roche certificates gave up SFr520 to SF111.925

Among financials, CS Group, a recent high flyer, gave back SFT9.50 to SFT163 while the insurer Zurich lost SFr16.50 at SFr436.50. Lindt & Spruengli, the

Y20 to Y1,910 and Industrial

Bank of Japan fell Y30 to

Y1,230. NCB, which con-

firmed details of its radical

restructuring plan, slid a fur-

Real estate companies

mostly retreated. Mitsui

Fudosan fell Y40 to Y1.240

and Heiwa Real Estate by

Retailers were hit on the

first day of the sales tax

increase from 3 per cent to 5

Y120 to Y5,380 and Jusco.

another supermarket opera-

ther Y19 to Y261.

Y15 to Y575.

THE EUROPEAN SE Open 10.30 11.00 12.00 13.00 14.00 15.00 Cluse FISE Purples x 100 2134.04 2125.89 2172.44 2120.82 2121.83 2123.13 2123.27 2121.15 2174.89 2140.51 2198.09 2164.28

6 per cent, to F1 124.20.

by news of a sharply lower

first-quarter budget deficit.

726.96 while the real-time

Mibtel index finished 190

Foreign favourites held up

better than most. Eni lost

L67 to L8,393, Telecom Italia

Neave, up 40 cents at

S\$12.20, and Keppel, which

picked up 15 cents at S\$9.25. KUALA LUMPUR finished

lower in further response to

Bank Negara's plan to curb

loans for property and share

purchases and the composite

index closed down 15.33 at

1,182.65, with banking and

property stocks under pres-

in response to Monday's

long-awaited announcement

of a rise in the foreign

investment ceiling. However,

SEOUL saw an early rally

lost F1 8.80 at F1 70.10.

lower at 11,640.

upmarket chocolate maker, outperformed as the market digested 1996 results. The shares finished steady at

SF127.000. AMSTERDAM seemed to give its financials a particularly bad time, although Philips shed 5.8 per cent, and Unilever 4.9 per cent as the AEX index came in 32.89 lower at 708.60.

In insurers, the Dutch/Belgian combine Fortis Amey dropped F1 4.40, or 6 per cent, to Fl 68.70 on profit-taking and Aegon by F17.90, also lost L29 to L4,141 and Stet

department stores, Takashi-

maya slid Y30 to Y1,160 and

In Osaka, the OSE average

SYDNEY brokers said that

volume was relatively thin.

with a dearth of sell orders

as the All Ordinaries index

closed 70.1 lower at 2,352.2.

from an early tumble and

the Straits Times Industrial

index finished 1.67 higher at

The rally among blue

2,074.67.

SINGAPORE recovered

fell 188.48 to 18,973.44 as vol-

ume fell to 18.1m shares.

Isetan Y90 to Y1,210.

Against the trend, Snia Fibre jumped L20.7 to L860.7 after last week's details of share-swap terms with its parent company Snia RPD, which gave up L48 to L1,692. Brembo, the brake systems

stis orders

and motor components manufacturer, added to last week's 9.6 per cent losses which followed disappointing 1996 results. with a further fall of L2,150 to L19.650.

In banks, ABN-Amro shed STOCKHOLM's interna-FI 7.10 to FI 121.90 and ING. topping the volume charts, tionals and its recently ebullient banks lost ground as MILAN was supported by the general index dropped some bargain-hunting and 119.33 to 2,631.28.

The US favourites Astra and Ericsson fell SKr20 to The Comit index lost 13.86 to SKr344.50 and SKr12.50 to SKr258.50, and Nordbanken and S-E-Banken by SKr8 to SKr252 and SKr5.50 to SKr78 respectively.

Written and edited by M

taking which left the com-

posite index to close 4.35

TAIPEI was rescued from

the Wall Street effect as For-

mosa Plastics reached agree-

ment with the Taiwan eco-

nomics ministry to back off

from a US\$3bn China power

plant investment. Taipei was

expected to deny it a permit

to finance the controversial

The weighted index rose

159,21 to 8,163,41, although

Formosa Plastics itself fell 50

cents to T\$69.

lower at 672.99.

Hong Kong, Sydney drop after four-day break

of Tokyo-Mitsubishi shed tor, fell Y80 to Y3,320. In

ASIA PACIFIC

Wall Street's decline over the previous two sessions kept the pressure on most regional markets with the biggest losses being registered in those returning to trading system collapsed. work after an extended fourday break.

Among these, HONG Latin American markets KONG posted its ninth-biggest points loss ever, unsettled by the prospect of outlook for the domestic property sector.

HK\$9.1bn.

Property stocks were hurt both by the outlook for interest rates and worries that the Hong Kong government might intervene further to carb rising property prices increase supply.

Cheung Kong slumped HK\$4.50 to HK\$63.75 and Sun Hung Kai Properties tumbled HK\$3.50 to HK\$78.50.

Street effect with disappointment over Monday's plans to revive the property market, writes Gwen Robinson.

The Nikkei 225 average fell 133.81 to 17.869.59, after moving between 17,529.05 and 17.934.79. Volume swelled from 259m shares to an esti-

THE DAY'S CHANGES % Change Kuala Lumpur.

Heavy selling of real estate and banking stocks showed higher interest rates and the investors' disappointment with the government's real estate package. Many inves-The Hang Seng index tors felt the amount of pubplummeted 460.13 to 12,074.19 lic funds allocated to the small and that other mea sures, including provisions enabling the securitisation of real estate collateral, were insufficient to lift the property market or to help banks with their problem loans.

Declines led advances by 847 to 278, with 116 unchanged. The Topix index of all first-section stocks slid 10.21 to 1.363.05, the capitalweighted Nikkei 300 was off TOKYO combined the Wall 1.57 at 262.34 and, in London, the ISE/Nikkei 50 index fell

1.78 to 1,420.47. Further reports about restructuring plans for the ailing Nippon Credit Bank hit leading commercial banks, which were being targeted by the government as potential contributors to NCB's capital increase. Bank

Notice of Annual General Meeting on 28 April 1997

The Board of Directors of Tele Danmark A/S hereby convenes the Annual General Meeting to be held at Tele Danmark A/S's office at Slet (Aarhus), 30 Sletvej, 8310 Tranbjerg J, Denmark, on Monday, 28 April 1997 at 2.00 p.m.

The agenda for the Annual General Meeting is as fol-

- 1. Election of the Chairman of the meeting.
- 2. The Board of Directors report on the activities of the Company during the preceding year.
- 3. Submission and adoption of the annual accounts, including the auditor's report.
- 4. Resolution to discharge the Management and the Board of Directors from their obligations in respect of the accounts.
- 5. Resolution for the distribution of the profit or the treatment of the loss, as the case may be, according to the adopted accounts.
- 6. Election of Directors, including Chaliman and Vice Chairman.
- Election of two Auditors.
- 8. The Board proposes that the Annual General Meeting authorize the Board of Directors - until the next Annual General Meeting - to acquire own A and B shares at a nomi-

nal value of up to 10% of the nominal share capital of the Company. The purchase price for the shares in question shall not deviate by more than 10% from the price quoted for B shares on the Copenhagen Stock Exchange at the time of the acquisition. In case of

acquisition of A shares, the purchase price must, furthermore, take into account the special dividend limitation applying to A shares in the period 1 January until 28 February 1997 pursuant to article 6 (2) of the Articles of

9. Submission of proposals, if any, made by shareholders or the Board of Directors.

The Agenda for the Annual

General Meeting, the Company's annual accounts and the consolidated accounts with auditors' report as well. as the annual report for 1996 will be available for inspection by the shareholders at the offices of the Company stated below from Friday, 11 April 1997 and will, at the same time, be forwarded to any shareholder registered in the register of shareholders of the Company having requested a copy.

Any shareholder having obtained an admission card is entitled to attend the General Meeting, Such admission card can be ob-

tained on presentation of due proof of identity in the period from Monday, 7 April 1997 to Wednesday, 23 April 1997 inclusive at the headquarters of the Company at 16 Kannikegade, 8000 Aarhus C, Denmark, or at the office of the Company at 21 Nørregade, 0900 Copenhagen C, Denmark, between 9.00 a.m. and 4.30 p.m. (due proof of identity means, as regards shares not registered to holder, the presentation of from the Danish Securities Centre (VP) or a bank (the bank with which the custody account is held) as evidence of the shareholding:

Furthermore, admission cards can be obtained during the above period by calling Den Danske Bank (Tel: +45 33 44 51 40). When requesting an admission card by telephone, the VP reference number must be stated.

such transcript shall not be

more than five days old).

Proxy and Annual Report 1996 will be forwarded by The Bank of New York to registered holders of Tele Danmark's American Depositary Receipts.

Tele Danmark A/S Board of Directors

1 (42 600 1441)	12.00	T1100	10122	717.70	1 710207	1
Germany	+3.70	+4.85	+34.62	+18.32		
Ireland	+1.84	-1.86	+25.57	+7.99	+5.43	
Italy	+0.32	+0.35	+27.91	+12.80		
Netherlands ,,	+2.11	+1.52	+40.37	+13.98	+9.53	+4.61
Norway	+1.39	+0.81	+36.07	+9.65	+10.58	+5.61
Spain	+3.02	+4.22	+46.36	+8.60	+4.11	-0.57
Sweden	+3.80	+4.46	+45.79	+16,76	+10.31	+5.35
Switzerland	+3.47	+3.90	+26.90	+18.01	+14.47	+9.32
UK	+1.17	-0.21	+15.71	+4.15	+4.15	-0.53
EUROPE	+2.16	+1.67	+27.15	+11.01	+8,32	+3.45
Australia	+1.61	-0.15	+9.99	+0.69	+4.11	-0.57
Hong Kong	+0.05	-6.80	+5.16	-9.93	-5.87	-10.10
Indonesia	+1.36	-7.40	n.a.	+3.57	+6.70	
Japan	-1.18	-0.49	-13.81	-5.91	-7.69	-11.84
Meleysia	+0.03	-5.44	+10.08	+0.92	+7.54	+2.71
New Zeeland	+0.29	-1.85	+0.92	-6.00	-3.24	-7.58
Philippines	+0.41	-5.20	n,a,	-3.78	+0.39	-4.12
Singapore	+1.54	-6.92	-8.86	-4.02	-2.88	-7.25
Theiland	+1.63	-1.77	-53.21	-14.89	-12.06	-16.02
Canada	-2.35	-3.72	+21.42	-0.11	+3.84	-0.82
USA	-1.27	-2.17	+18.70	+4.12	+9.02	+4.12
Brezi	-0.48	+2.55	+64.49	+27.28	+30.79	+24.92
Mexico	+0.87	-0.55	+19.71	+12.91	+17.48	+12.20
South Africa,.	-0.28	-1.44	+4.04	+6.99	+18.56	+13.24
				_		

REDAKAD 4, MARANTON	10.07	-U.00	+19,71	+12.91	+17.46	+12.20	leaving the overall inde
South Africa	-0.28	-1.44	+4.04	+6.99	+18.56	+13.24	down 132.4 or 1.9 per cent : 6.962.4 as industria
WORLD INDEX	-0.21	-1.01	+12.90	+3.69	+5.44	+0.70	dropped 164.8 or 2 per ce
† Runol on March 38 & Co. and Standard &	h 1867. O Poors. 19	Copyright 77. All righ	FISE letter is received	milonal Lie	nind, Golde	en, Seche	to 8,174.6. Golds initial fared better before the bulion price edged below \$3
FT/S&P A	CTUA	RIES	WOR	LD IN	DICE	S	

	•	
	Johannesburg joined in the global rush of falling shares, leaving the overall index down 132.4 or 1.9 per cent at 6,962.4 as industrials dropped 164.8 or 2 per cent to 8,174.6. Golds initially fared better before the bul- lion price edged below \$350	an ounce, and the index fin- ished 9.3 weaker at 1,292.3. SA Brewerles gave up 300 cents at R137 after a day of rumours, denied by the South African group, that it might be about to bid for the Austrian drinks group, BBAG.
3	oldman, Sechs & Co. and Standard & Po the Institute of Actuaries. NatWest Securit	or's. The indices are compiled by FTSE les Ltd. was a co-founder of the indices.

Johannesburg tumbles 1.9%

MEDIONAL MARKETS				EDAY MU	IRCH 31					FRIDAY	MARCH	28 1997		DO	LLAR IN	DEX -
igures in parentheses	US	Day's	Pound			Local	Local	Gross	US	Pound			Local			Year
HOW number of lines	Doller	Cueude	Sterling	Yen	DM	Contents		Div.		Sterling	Yen	DM	Currency :	2 week	52 week	ago
of stock	Index	<u>*</u>	Index	Index	hdex	Index	on day	Yield	index	index	Index	Index	Index	High	LOW	(approx
ـــــــــ (76)	220.48	-0.1	199.07	172.55	191.24	187.09	0.0	4.06	220.64	200.16	172.76	192.27	187.09	225.77	188.44	199.4
watrie (24)		0.5	169.25	146.71	162.60	182.54		1.79	186.55	169.24	148.07	162.57	182.54	195.04	174.70	
elge.im (26)		0.3	215.58		207.08	203.04	0.0	3.44	237.00	215.90	186.35		203.04	241.54	204.91	
razi (28)		-2.6	208.25		200.06	450.16		1.15	236.83	214.94	185.52	206.47	461.75	247.23	149.69	
anada (114)		-1.5	167.42	145.12	160.84	185.50	-1.4	2.10	189.28	170.80	147.43	164.07	188.22	203.31	154.12	
Anmerk (32)		0.5	332.95		319.85	318.78		1.57	387.01	332.95	287.38	319.82	318.78	376.98	291.89	
Inland (26)		0.5	234.40		225.27	289.95		1.69	258.47		202.39	225.24	260.05	268.58	174.47	
Tance (91)		33	204.28	177.07	198.25	199.76	0.0	2.66	225.57	204.64	176.63	196.57	199.76	226.25	186.94	
3emeny (59)		0.5	187.49	162.51	180.11	180.11	0.0	1.50	206.68	187.50	161.84	180.11	180.11	207.65	164.47	
long Kong (50)		-0.1	411.07		394.00	452.95		3.48	455.85	413.54	358.94	397.24	463.53	514.48	407.55	
ndonesis (27)		0.0	209.98	181,99	201.70	342.52	0.0	1,55	232.54	210.96	182.09	202.64	342.52	314.40	407,33	432.
dand (16)		0.7	300.92	260.83	289.08	295.62	0.0	3.25	331.13	300.40	259.28	288.56		-	-	
aly (50)		0.3	77.51	67.18	74.48	106.95	0.0	214	85.55	77,61	68.90		295.62	343.35	264.44	
aper (480)		-0.4	102.35	89.72	98.33	88.72	-0.4	0.89	113.79	103.28		74.55	108.95	96.32	71,97	72.1
talayala (107)		-1.5	549.59	476.36	527.97	581.23	-1.8	1.09	619.55		89.10	99.16	89.10	184.88	109.16	
lanico (27)						ديد. 11 65 6.93				562.05	485.12		592,11	680.85	512.47	
etherland (19)		0.5	319.01	278.51	308.48		-1.7	1.12					11854.68			
						302.49	0.0	2.55	351.63	319.00	275.34	308.42	302.49	357.18	279.88	287.
lew Zeeland (14) lorway (41)		20	76.59 283.19	68.39	73.58	54.83	0.0	4.39	64.61	76.93	66.41	73.90	64.83	95.60	75.84	83.4
		0.5			272.05	280.88	0.0	2.18	312.14	283.17	244.41		280.88	321 <i>.2</i> 3	236.19	236.5
hilippines (22)		0.8	177.78	154.10	170.78	258.71	0.7	0.67	195.24	177.12	152.88	170,14	256.81	_	-	
ingepore (43)		-1.2	347.27	301.01	333.61	256.17	-1.4	1.10	389.42	353.28	304,93	339.35	259.76	449.15	371.28	440.8
outh Africa (44)		0.0	325.49	282,13	312.89	348.31	0.0	2,41	380.58	327.12	282.35	314,22	348,31	386.46	301.49	385.4
pain (35)		-1.5	194,28	168.40	186.64	231.11	-1.8	2.75	218.55	198.26	171.13	190.45	235.22	228.16	171.08	171.8
Weden (49)		0.5	403,12	349.42	387.28	497,94	0.0	2.09	444. <i>4</i> 7	403.22	349.03	387.33	497.94	448.64	334.04	
witzerland (36)	262.41	0.6	236.93	205.37	227.61	234.36	0.0	1.36	260.80	238.59	204.21	227.27		262.41	229.38	
halland (44)	80.04	-0.5	72.27	62.64	69,43	80.69	-0.6	3.88	BC.45	72.99	63.00	70.11	81.14	187.79	73.98	
inited Kingdom (212)	283.00	0.5	255.52	221.48	245,47	255.52	-00	3.85	281.66	255.52	220.55	245.45	255.52	285.30	228.85	228.9
ISA (654)	307.07	-2,3	277,25	240.32	266.35	307.07	-23	1.96	314.29	285.12	248.10	273.88	314.29	331.54	254,79	
madaa 6000	504 es												917-28	30120-	207,17	200.5
mericas (823)		-2.3	253.84	220.03	243.86	236,73	-2.2	1.95	287.65	260,95	225.24	250.66	242.18	303.45	233.09	240.5
uropa (727)		0.4	224.70	194,77	215.88	226.82	-0.1	2.73	247.92	224.91	194.13	216.05	226.97	248.97	204.71	207,1
lordic (150)		0.5	346.17	300.08	332.55	366,41	0.0	1.97	381,63	346.21	298.83	332.57	366.41	385.85	286.64	
acific Basin (872)		-0.4	120.27	104.25	115.54	102.97	-0.5	1.42	133.76	121.34	104.74	116.56	103.45	177.01	131.50	187.7
uro-Pacific (1599)		0.0	163,79	141.07	157,35	149.72	-0.2	2.17	181.34	164.51	141.90	158.02	150.07	191.51	176.79	184.0
orth America (766)		-2.3	270.56	234.51	250.91	299.04	-23	1.97	306.58	278.13	240.06	267.17	305.95	323.69	248.65	
urope Ex. UK (515)		0.3	202.88	175.66	194,90	206.18	-0.1	2.10	223.96	203.18	175.37	195.17	206.40	224,70	185.85	189.9
acific Ex. Japan (392)	239.25	-0.5	270.19	234.20	259.56	259.39	-0.5	2.89	300.78	272.86	235.52	262.11	260.78	320.65	268.97	289.4
onid Ex. US (1812)	_184.57	-0.1	166.65	144.45	160.08	155.45	-0.3	2.15	184.70	167.58	144.63	160.98	155.85	183.47	179.10	185.2
larki Ex. UK (2254)	217.75	-1,3	196.60	170.41	188.87	193.20	-1.4	1.86	220.58	200.11	172.72	192.22	195.90	228.59		
orld Ex. Japan (1985)	279.46	-1.2	252.32	218.71	242.40	288.43	-1.4	2.28	282.97	256.70	221.57	246.59	272.20	282.72	199.58 233.10	207.3 239.6